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DICTIONNAIRE

DE LA

LANGUE FRANÇAISE

CONTENANT

1° **POUR LA NOMENCLATURE:**
Tous les mots qui se trouvent dans le Dictionnaire de l'Académie française
et tous les termes usuels des sciences, des arts, des métiers et de la vie pratique;

2° **POUR LA GRAMMAIRE:**
La prononciation de chaque mot figurée et, quand il y a lieu, discutée;
l'examen des locutions, des idiotismes, des exceptions et, en certains cas, de l'orthographe actuelle,
avec des remarques critiques sur les difficultés et les irrégularités de la langue;

3° **POUR LA SIGNIFICATION DES MOTS:**
Les définitions; les diverses acceptions rangées dans leur ordre logique,
avec de nombreux exemples tirés des auteurs classiques et autres;
les synonymes principalement considérés dans leurs relations avec les définitions;

4° **POUR LA PARTIE HISTORIQUE:**
Une collection de phrases appartenant aux anciens écrivains
depuis les premiers temps de la langue française jusqu'au seizième siècle,
et disposées dans l'ordre chronologique à la suite des mots auxquels elles se rapportent;

5° **POUR L'ÉTYMOLOGIE:**
La détermination ou du moins la discussion de l'origine de chaque mot établie par la comparaison des mêmes formes
dans le français, dans les patois et dans l'espagnol, l'italien et le provençal ou langue d'oc:

PAR É. LITTRÉ

DE L'ACADÉMIE FRANÇAISE

TOME DEUXIÈME

D—H

LIBRAIRIE HACHETTE ET CIE

PARIS, BOULEVARD SAINT-GERMAIN, 79

LONDRES, 18, KING WILLIAM STREET, STRAND (W. C.)

1878

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SHRIPAD ... THAKUR
श्रीपाद बाबाजी ठाकूर

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&"(2*!-&&*/('
' ? 67&' 4'#!2"&%-,!"5'4O8(#" O&&"('
' +*-""$%!" #" 26*-:'>+*+"O!'#" 26*-<'
26*("#&-2O%"$% +O7"'"'("%"$&"%4'-/2-4O&'(
#"2" +*%#O/(/*("%"%" eO/aO-(
$' e 'D#O@-@'-E'*/' &eG DG- @-@/^E' ' -%"
#!'(*%%.":O-/' (4-'-%!"&O/'SO4*/' "(#O&'-(' %$%-"/-
4"(*//"(/*2"(O2' "(&"(#"(2"/#O/%(&" '"4' @
("/$O/%(#"(#-"!:' ' A ' " ' -' ' "(

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' (-.I' ' "(,!"&&"(;"(%"( )'&O-/'" "/' O.*-%
!/" 7!-' O.*-% !/' #O/#-/' */' #*26"%%"' 4"/#!" O!'
2*!' ' '
' $- ?' /7&O-(' C#*/#&"' ;"'2"'' O!,!"& -"<
'O%%O26"' 1O&&"+O/#9 ';O&-."'/"(' "("(/(4'-@
+ -$'#"' '"(%7!-'("' ;O&O/2"' 7!-' .O "%' .-"/%'
("/('2*/("'.#"/'
%' ' D#O/@#-@/O/'/O/@%1E *#9'
Q!-' #O/#-/"' %-/' O-"' ":2"((-$'#"' /O-."%"' O."2' !/"'
#"+O'26"' #O/#-/O/%"' &!-' O.O-% $O-% 7'O/#' %*'% U&-
6O---&&O'%J "% $O-% /-"'(*/' "(4'-%' ! ' YA'%('
1-&' /%"' 'O.O-% 4'*4*(#U /' 2O''*(("J'9"' /"' +"' ("K
'O-('4O(" +;*-%-'2*++"!/' (*%#O/('2"%%"'2O-(("#O/K
#-/O/%"' ? -* ' $#+' ' > ' 4' %AA'#O/(
? 'D#O/@#-@/"@+O/E'(' + ' O&O/2"@
+"/%7O!26"' "% /*/26O&O/%"#!' 2*'4(
'H ?' !
R6OS " H#?' D#O/@#-@/#E' ' X' i' O&O/2"' (*/'
2*'4('#1!/"' +O/-#'"' /*/26O&O/%"' "%7O!26"' 1#%O-%
U 6O+- O'%J !/' 7'O/# 6*++"' ,!-' +O'26O-% "/'
#O/#-/O/%' ! >'A' M' "(6-(%*'-"%%"(.*/%O
+"'.."-&&"#O/('&O;*!26"#1!/'6*++"' ,!-("+;&"+O'K
26"'",H#O/#-/O/%"%/-7O!#O/%' ' '< ' '$ "'
"(*-("O!:'(1O.O/""/%"'/#O/#-/O/%."'('&"?%'7!O@
#'!4O#"U'"/O'#J' ' +#'%('N i' "#O/#-@
/"''!'#&' "4*'%"'(!"(*/'2*'4('#"2$-#"%#1O!%$"' "
#O/#-/"'' $'-("' !/' 4-(#'$O&'"' !/' (O!%'
' ' 7 / ' 1"(%4*!"'4O'&"'%*'!%O (*/'O-("'
"#O/#-/"'#O/('!/"'26O-(' % ("#*//"%#"(2"/@
#"<@ ' -O ' #O '
@H - ' :.-I'(' ' O&&*-% 26O/2"&O/%' #O/#-/O/%'
%'";!26O/%' ' &O%:-:
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%' 'D#O/@#-E'(' + ' *++"'."26"'26O #O/(
(O %*-&"%%"' "% ":O7O'O/%&"(+*#"(9!(7!1O!''-#-2!&"
'//2 O;&"'O!' +"'."-&&"' !:'O'-1#-O7O/%'2"(%'*-(
6O'-%-"'O #"(H%-%(@+O%%'"(' '*/%(!22 ## &"' #O/#8'
4!-('&"' &-*/ ' ' N '#O/(c" ! ' / '
.- ' -' !/'#1"!:' 4*!.O-%/*!''-"!'&O'4' %"/%-*/'#"
+"%%"' !%-"$"++"'O!%*+;"O!'U4O" #$-("(4*-"'O++"'
"!:J'21 %O-% O 2*!4'(&"&1 #7O/% 4O'-("/' %"/*/'
&"'7'*(#O/#8'O7'O-/"(#1 4-/O'#UO/'2*++O/#O/%J'
' ? '&*' - ' ' ' $&/(' j' '
"(6O;-%('!(#("%$& %'-(%O-"/%%O-&-O("&*/'&O'+*#"
&O 4&!(& 7O/%' "%O//*/7O-"/% !/' #" 2"(#O/#8(
$!'-"!:'%*+; ('O4-#"+"/% #1!/' &!:" #-((-4O%"!"
#O/(!/"' :%'"+"+-(#'"'4'(*!! ' -
)'B
' S$' /' #2'-% O!' 4&!'-"& 4' *!' "/2*'"'
2*++"' "/'O/7&O-(' #O/ % (D7!1*/4'*/*/2"#O/@#-J
' # *%' /7&' 4
$' ? 'D#O/@+@(+IE' ' ' O/-O'"("%'6OK
;-%!#"(#!'#O/#8'
@Ib f ?' */#8
Q O D#O/X$"$' 1"'/" ("4'*/*/*" "% /" ("
&-"9O+O;$'O!' 4&!'-"&' 1(("&-"'>'#"(#O/@9#@c'-+@
+-/"/%(E' ' 'N F "+"#"#"*-%$ *#O&' "%#1"O!:'
"%$ '#%(' '*-% ,!1O.O-%&"("-7/"'!' "%4&!(%O'# &"'
"*-'(!"&"($*' %(#" *'+O/#-"'2*/(-(%O/% "/' 2"
,!"&"(4'*4'- %O-"("/" 4*!.O-"/%&"(' ."/#'*' /-'&"(
":4&*-%"' (O/((O 4" +-((-*/' "% (O/(&!-' 4O8""
#-:-#+"' (*!('4"-/"#" 2*/$-(2O%-*/'N *-('(!9"% O!'
%-"("% O!' #O/7"' 21"(%@#@#-"" 7!-' 4O8"' !/'#'*-%
2*/(-(%O/%#O/(-('%-"("#"' -"' -"'!/"%'4"/-!/"' ' 4!-
4'#&".#O!'4'*$-%#!'*-'N O/7"" ("-7/'!-"'#"$"/K
("('#*!O/"(' ":O2%-*/(' 2*/$-(2O%-*/(' "%2'7!"&"(
("-7/"!'(#"(&-"!:"22"/%"(!"&"(+O'26O/#("%(!"
&"(.O-(("O!:,!-$*/O!$O'O7"" (!"&"2#%'("N -"$
#" #O/7"'2"&!-' #*/%*//"4"/!%4'"4*((("(-*/'
(O/('O.*-'$O-% 6*++O7" "%4O8#&"(#'*-%O!'("-K
7/"!'O"4"-/"'#"2*/$-(2O%-*/'9 (""+"("#!' #O/('
$"'#O-(1":4&-,!"/%4O'"(/('4'-+-%-$'#O/7"''7!-'
"(%#*+-/O%-*/' 4!-((O/2"'N i O'":%"/(-*/'#!'("/(
#"#*+-/O%-*/' "% #" 4!-((O/2"'(-%O'#O'-*/ !/'#O/7"
%!"' 2-'2*/(%O/2"' ,!-' 2*+4'*+"%%O"/%#O (#'"%#"'
":-(%"/2#1!/'"4"(*//"*!#!/"26*' 'S'O#!'
#O/7"'O (!-.'"2"%%"'/%'"4%-(" S" #"+"!'"#'
#O/7"'7!" O+"' ,!-"(%/#" *!" /" ++*!-'9OK
+O-('+"!'"#%"'/"&&"+"/%? -' &!(9!8.*-('
#"6O(O'#' 4 !(S&'%*!."#1O+*!'$ -& &" #O/7"'
"(%7'O/#' 21"(%@&O ,!' 9"' +1"$$*'2"' -/'.' ' "%O/@
#-(,!"+*-' ("!&'91"/'2*!'O-"#O/7"'' 'O "'
' ' *(' ("!-('-/%#"O%(+" +"%%"/% "/'#O/7"'
%*' .* ' M' &#(!("#%O-%"/'#O/7"' #"(O ."'
' /1 ' 9 ' Y-' &":O/#"'"$!%2"/%$*-(
"/'#O/7"'' +O/-$ (%"#"(O .-" !?9 ' ' Y'
#& +*/' O+-'%-"@+*-'#!' #O/7"'%!'$"'O(O4'#(
%O6O'O/7!"' ' - 1 ' $" ' &O %'-;!/" ' -/'
(O 4O%'-" "/' #O/7"' *!'!% &O %'-:!"
#O/('&"#O/7"' ,!" */' %*'!26"'#!' #*-7%' +I'
/ ' ' " %'*4 #1O%%"/%-*/' ,!*/' O 4*!"&"#O/K

7"' O-% &"4&!((*!."/%,!!*/'8%*+;"' -/' 1' :--'
' -'2"(4"'(*/"(#%O-"/%"/' #O/7"' #1#%'O((O(@
(-/#"(' 'O /' %%' O 7*!%%"/%"'("O"#"("'
7"/*!:'"%(!"&"(4-"#('"%&"".*--O 6*'('#" #O/7"'
(.'= ' ,' ' MB '?*/(-"!' *-&2*!'"<@.*!(3
21"(%.*!(+"%%"/%' "/'#O/7"' ' &O%#'' Y' O
7!"''"+"%!/' %O% "/'#O/7"' #"4#'-' # '9 '
O ' /1&O.O-%4*-/%#" 8'-"/',!-/"$&-% "/'#O/7"'
#1"%"1*;9"%#" "(#%#$-O/2"('-/'%M'.--' O 7&*-'"
"(% "/'#O/7"' %O %*+;"(% "/%"1*!."%%"' 9 '
- '-.' ' ' U O4*&#*/J#*//"*#'" ,!!*/'&O-(("
%*!9*!'(!"(O %O;&"'&" '#(!+#,!-' 1#2&O-"'(!"&"(
#O/7"'(#" (O 4*(-%-*/' # ' ' ' " ' !
' ' "'+"#" +"'' *!%"'*"';"'%*!%#2!"-&'%*!%
;O(@$*/#'%O%!%6O!%@$*/#' O44'*26"*!O!'2*/%O2%
#!,!"/'/O.-'"4"/%2*!-"!'#O/7"'' %NYd !'("/(
O2%-$"/'4O'&O/%#"('2;*("('&""4#'-& ,!!"&&"('4'*@
#!-("/%' "#O/7"'#"('+O!.O-("('#*2%'-/"('%N d O@
+-&-;'."+"/%-/2*/."/-"/%' '/1&O4O(#"#O/7"'#1"/@
%"'' .*!(/" &"' ##'O'7*/"'< 4O(%N *4!&O-'"+"'/%
"% -'*/-7!"+"/%' '/1&O 4O(#"#O/7"''1"(%@ @#-'"
(*8 <(#",!"9"' /1"/'$"'O-'-"/' "'%"("9"'/"&!-' 4' @
%"'O-'4&!(#1O'7"/%'-&/1&O 4O(#"#O/7"'
' 8*H')OH-#?' # ') 8T>#' -(,!"("#-(K
%-/7!"/"%%"+"/%"%$O2-&"+"/%#"(#"!:'4'"+-"'(5-&
2*/%-"/% +*-/(1-# "#"4 '-&7!"2"&&"#"'26O/2"'
O&#O%*-'"' +O-(2*/(-# '&" #" (*/' +O!.O-(2 % 5
7!O/#!/'6*++"9*!" '&O;*!'(" ' -&$O-%2*!-'#" #'
'-(7!"('!/''-(,!' '(O$*'%!/"5+O-((-'O8O/%9*!'
;O-(("'&O 6O!(("(!'."%%"'O$*'%N /1"(%4&!("
("!&"%"/% "/'-(,!"' "&&"'"(%"/'4#'-&'$&'"(%4&!(
#-$$-2-&"#1 %O;&-" '#-(%-/2%%-*/'"/%'"#O/7"'"%4 '-&'
"!:' ,!-' */% #-% ,!" #O/7"'' -+4&-,!O-#"' #"
#*++O7"' (" "(%"$*//#'(!"!/'"!/'"'$O!(("
&"$O-%"(,!"(%"(4'-:'$'-4O"('-"%'O!'"(%'O!%"
(("(/%"!:'7!-' 6O/2"'#-(4O!%"*!-(&"2"/%-&&"-&-"
(/'4%O/2' /'&O2"'"4!%"&O2!%%"'-(4O'(2*/(-@

? ' & 'YM' % "/' 4O'&O/%'4O"7"(%"(+*/(&'*-%
;-"/' Q!" ("(O#."'("-&'/"#*!;%*-%#" '-"/' "&"!-'
#O/7"'U4!-((O/2"J '9 .'%**' */"6*/%*'
(*"% #"#O/7"' ' A ' $d R' #O/(1'
)# - '*'' %' '4' MY' /'%'*4'$-"'7-% &" #O/K
7&"'' 1'%' '4')R' '? - ' 9' '("/K
%"/2"(' O/(#O/7"'"*/' /" .-"/%9O+O-('O!'#"((!(#!'
#O/7"'' -/' 1'%' --' 4'
' $- ?' CO&&*/' ' /#2"((-%#' #O/7"'5
;*!'7!-7' '/*'+O/#' '4!-((O/2"5 '"K
%O7/"'#O/7"'' '#4!7/O/2"5 4'*."/7' '#-$$-@
2!&%"' O8/*!O'#"% -"<%-'"/%2"+%%#" '
#*++O7"'5'+O-('2"&O/1":4&-,!"/-&"("/('/-&O$*'+"'
&"("/('2O"#O/4%"'(-7/-$-"&" 4&!('(*!."/% 4*!.*-"
O!%*'-%#5 &O $*'+"'2O" ' ' /" 4"!% H*#!-'"
1*' ,!-"%%#O/('O!((-O!%*'-(#,!
&$O!%#*/"'%*!."/%' !/' +%,!-4!;("$*!"/-"#7O@
&"+"/% O "%' 1*5'*'21"(%2"' ,!*/'%'*!."#O/(
, 'D*/'%*'!." 'O!'4&!'-"& /"!%'
#O/(!' O/7"'E ##'-.# #" ' 2O"
#*//" "O$*'-"%% ' "% ' "%
' ! , '(O%-($O-% '-1O!%'"2*/#-%-*/%'
4!-(7!!-& (-7/-$-"'4*(("*!'."/%4*!.*-'2*/(-@
2*++"/%'#"2"+*%O%-&4O(("-' &"'4'-&"(
4#'-&3 /'&"2*+4'*.-"'4O4'"'"4'-#"'*/% @%-
2"%':%"' #" '*-(O'%-4O(-'-&-"'%O!2O'&O/%
#%O-"/%O!#O/7"'#"' *+O-/% O!%-4&!(4#'-(%"!-' 4O8"
7"'"1"(%@ @#O!'4*!'
O!(4O'4*!'%#!."'4*!."%-'-O!'4*!/'"2"%%"-
O!9*'!1#4"'4'"!*'1"O%"'-"("'((8'4'
4&-,!"/%O!!'"O!'/"/%"'&"'O!'4&!'O'+*!
?"/-!'4"'%'&(0!'
' ' ' (O/('&"#"/%'"(%1&O ' ("' %"/2"'%*-/%4&!(7!
#O/7"'#"4'*4*(#%' ,!-' ,!" ' 4'*-%&O%'-
4&!(7!/"(" "(2O!(&O'(4'"'#"(#O/7"'#"+"/%
U ? 'DD$O/@9"@'"#@<"@+O/5' ,!"&@
,!"(4"'(*//"(#-("/#O/@9#@'"#@<"@+O/5'1"(%!/"
$O!%"E'O#*' !!/" +O/-#"#O/7"''!("' '"(% #O/@
7""!("+"/%;&"(#' & "(%+O&O#"#O/7/'"!("+"/%'
*-&(U&"(6#'#%-7!"(J"''O/%#1O!%O/%4&!(#O/7"'"!@
("+"/%,!'((!-."/%602!/'!/".#'-%#5&"'!$O!%"
/1"(%4 (#" (!-."/%!/" $O!(("%#" +O-("#"/" 4O(
(!-."/%!/"O!%"'-#"%#'O "O'%' :-.'
?*/ -"!+O$-&&"'',!".*!(O."<##.-."+"/%"%
#O/7"'"!("+"/%O&O#"'(.' M (%"/% MAA'
2*/(!&' ;&"((#"#O/7"'"!("+"/%' ("""'%O"/'; *!'
'#"'&'!!$%2*/#!/"%#O/(*/4O/%'*/' !/'7'*(#"
2O.O&"(,!-$"&-2*/!"-#'*/'!'*'"
2"'4(' '' >,/ ' '4' M#O/(
U' '# $ ' ! , '%&"'(!$$-:"
O'>3#>'$#O/@9"@'"#' '"$&@<15' ,!"&@
,!"(@!/(#-("/%#O/@9#@'"!:5'21"(%!/"$O!%"E' 6
d Q!-' ":4*("' !/' #O/7"'' "#O/7"'"!("(&-O-K
(*/(' "(% #O/7"'"!:'#"%*4' $O&"'.*-' 16*++"'
2 +;-"/'-&"(%#7O&O!:';O%"(O/(&!-'+*/%7"'(O
7'O/#"'!5 -& "(%"/'2*'"'#O/7"'"!:' #" &!-' $O-'(
%*4'.*-"(O7'O/7"'2O/2"'"(O/(O 6O((((5 -&"(%"/2*'"'
4&!(#O/7"'"!:'#"'&!-'&O-((""-7/*'"' !/'"%O!%%"'
' O ' O'%' -'A' *!('&"('7'O/('#-."K
%-(("+"/%(' (*/%#O/7"'"!:'4*!'&O'.-"'26'#%-"'//5
+O-('/%"%!' %*!(2"!:'.*!(2"!:' ,-+"'2*%O%%-*/%"/'
#"'*/'/$%-!1"/'*4%"'4O'%*' '"4/-"'#*(#'-' !*+O/-&'2
"+-/'4'"' '.O/+'#*4!&O+*"'
'+O-(-."' -(1' #'+O/('&""("%!#O@ '' ' ..
'%O,/'' $ '%* 2"'%(2O/2"O"!$O-' ."O/7"" 4*''&"#"'
'@'%#'#*+-/-"/'' -' (-&"(((O(%-%O%"
"#/'"#"!-/'&"/7"(4O!-!/'9"'$"#7!-' 4!!'
-O/'#O/7"'-4!/*/' .'%%$O-' O/!/4"!-"(%-;'
7*-(((-!/'"#"(%%*%4"'%$"''"+O'4*!'!/"'
-'%O!'.-/'"9!-(()O'"&"(4&-'-"/(%!%'OO!'
2$O!%"'&'"!!-(%4'*!.O-%#'"' !(4'!"9"'$!"'
2'"(#O'"2"%!-"!-*'"&"(%-&((-$'4'4!"O!
&O!%"'/"/#' O/%'-&%*!.O-%2"&*-'+O-(%"'
,!"&"("(%"!#O/(!%-!'"%-!/'%-O(($-&"'#'"&"
' ' ' ' 'DN '"(%#O/7"'"!:'!' ' ' O."2
&"' (!;9*'2%-$' Q!!--' "#O/7"'"!:' ,!!*/' /" + &"
,!"&,!"(7'O-'$"(*/'*/ %'"@%"' % '7'-"' 2#!-', !!*/'
'"7*-%#"(O!%"'("' 72 'O '--' 'Y' !N i'Q!-
+"%"/#O/7"' &O'"&-7-*' '&"(+2"-!(' 1*-7O-O-"O%*

(*2-O&"' /' &-8'" #0/7"'"! / ' "% * ! . '07" /1"O% /-
+0! .O-(/-' #0/7"'"' / :' -' 4 ! ; &-"' ' NN ' Q!-' O' 4* ! . *-"
#" / ! - '"' ' "/' , !-' * /' /" H" !% (" e"' ' "/' 40'&O/% #"(
4"'(* / / "(' &. *-% &O ("' . -% ! #" * -' &" '*-' (1"(% (* !@
+-(' %2* / / O%%#1O!%O/% +-"! :' &"(#0/7"'"! :' 0+-('
' . * ' -/ ' ' * ! ' , ! *-' +1"(@% !' #* / /#' M 2* '4(
+* '%"&' $O'#"O!' O22O ; +% ' (* !%-"/' /#2"((O-'"' "/@
/"+-' $&O%%"! ' ' O+-' #0/7"'"! : ' O. "*&" , ! "&9"' /" 4! -(
O. *-" /-' 7 ! "' '" /-' 4O- : ' 4O'2" , !1 [' 2 ; O , ! " +*+"/%
-&' $O! % (1O22* '#"' ' "% -& 2 ; O , ! " +*+"/% -& $O! % ' * +@
4 ' "3' ' ' F ' "(7"/((O/(; ' ! -% ("/%
#0/7"'"! :5 ' /1"/' "(% 4O(O-/(-' #"(O! %"'('
' *MS' . /-' Y' O/7"'"! (" +O'#%"' ' # 4"-/"
"&&" . * ! (. -% Q!" . *%' ' " : -& #1O ; * '# (-7/O&O (* /' 2 ' "K
#-%' 2 -1$%##' ' E' O/7"'"! :' # & ! -@+M+"' # ("(
. *-(-/(%"' ' -; &" ' 2 ; ' - ' ("": "#0/7"K
' "! :' , ! -' . "!%%*!% O(("' . -' ' 1-&' '#7/"' #0/(1$-!@
'*4"' -#' #*-% * ; #-' ' -/' U ' +' M' N *+++"
#0/7"'"! : '$"++" #0/7"'"! (" ' 2"& ! -' 2"&&" , ! " */'
2 ' *-%4 ' *4 ' "# -/(4-'"' # 1O+* ! ' '(O/("/'"((("/%-'
"%# ("9* !"' O-/(-' #" &O 2 '##!&-%" #! ! /" O$$"2%-* /'
(-/2"'"' i' "'+"#1O/2-"/ /" &"7-(&O%-* / ' "'7"/%
#0/7"'"! : ' (-7/-$-O-% 2"& ! -' , ! -' . "-&&O-% # &O 2*/K
("' . O%-* /' #"(%"'"(" *-/' #"$"/(' "% #" ; *-((! "&"(@
, ! "&(&" ' *-' O. O-%&" #' *-%#" #0/7"'"! NNRd "'+" #"
$O! 2* / / "'-"' -("O!' #O/7"'"! :' # ##'* ; "'&"((* /@
/ "%%"(*-("O!' (!9"% # (1#2O'%"'
' O I (' % (" %! 1O!%"' ' "$! (*-"(' Q!-
/1"(% +-" +O-/(#* ! "'"! (' !' ("'*-"(+*!&% #O/@
7"'"! (U#-$$-2 ! &%! "! :J ' < ? ? O'&-&"! (U-"!H
#! *-(-O! (6"' ; "'7-"' 1"(%*-% /" #0/7"'"! (/" 26-@
2 ; "(' /" + ; (/" %! / ! (&" ! ((-' ' -2 ; "(1O' ; "(/"
#! *-(-&&*/("; O/%O/(' ' AY NN: . I(' O-(&* ' (("'O
+O 7'O2" #" %*8&*-/75 O'# ; * /'#'*-%%"$O!&#'O8O!'
; "(*-/7' % (-' $"'O8 . "'(%*8 &" #0/7"'"! : ' * ++"
%! $O-(#1"(%'" . 'O8 O+* ! "' ! : ' ' "G ' 'NN: . -I' ('
' $O-2% #0/7"'"! :' O((O-&&-" ! /' $O* ++" # , ! -' . * ! (
O. "< *(%" %*! % +*8" /' #1"(" ; O44"' 4O" &"(O'+"(
? ' ' YR ' 1"(% ! /" #0/7"'"! (" -/ . "/%-* / , ! "
2"&&" #"(7"6"/ / "(' -/' /' A' "((-'"-/"('(4* ! "
O%%-'"' &8(("' #0/(&" ! "(#0/7"'"! :' "% ' ! 8/"!$
&O , (' ' B' O 2"&O 4"! &% */' . *-"' 2* + ; -"/' -&
$O-2% #0/7"'"! :' "/ * * ! ' -"' &O +O&. "-&&O/*" #! ! /" . -&&"
, ! -' (2O-% ? "/' 4O'&"' ' 9 ' 9A ' GB' *7/*-(@
(O/(#" , ! "&&" 2*/(" , ! "/2"' "(%"/' 2"' %"+4(#0/7"K
' "! : ' , ! ! -& /18' O-% , ! ! / /' ("! &' 26"$' -/' ' Y-'
26"+-/' "(%*-% ? "/' #0/7"'"! :' # 'O-(*/' #"(. *&" ! ('
' 9A ' ' ' % ! + ; O "/' ! /" +O&O#-"' &O , ! "&&"#!'
2*+4"/2"+"/% ("+ ; &O ; -"/' #0/7"'"! :' /^' O'
V ' M ' /' (-' #O/7"'"! :' . *-(-/' "% (-' +O&O-(# #
+O/-"' ' "' O4 ' -X ' % /1"/' #"+*! ' *-% (-/*/' &O
"'4!%O%-* /' #" +O&-7/-% ; ' "% #" #0/7"'"! (" "% +O!@
. O-("' &O/7 ! " #"! & : , ! -%"(#-(*-"/%' ' *'
' ' "(4*-((*/(4*'%O/(2* , ! -&&"H' (*/%#O(/ /%
7"'"! :' #1"/7"/#"'"&O 4-"' ' " > 9' B ' ' "%"' ' "(
("/% $*"% 6! +-#"(' &*/7 ! "(# ("-2%O"' #0/7"'"! "(
"(U(!9"%%"(9 # ; ' ! (&"' ' -/' M ' "($"++" &" ($*'%
+O-<"(' "% ("-26"((*/% #0/7"'"! ("(U": 4*(#"(J #
O#. * '%"' ' ' %' -- ' 4' M M' "' 2*& "(%O/(&O 4O'H"
#" (* / 2*'4(&O 4&! (#0/7"'"! ("' "% "/' &O , ! "&&"#"/'
; ! 4' (1O%%O26" 4'"+-"'"+"/%' * ' - ' ' Y
' # $ ' !
' D#O@ / *&5 1((" &-"' / ' #O@ / *&@< O7-&"E'
' ' d 6-"/' #"26O(("# 4*-& 'O(' 4'#-/O-'"+"/%
; &O/2' %O26"%##" / *-' #1*'-7-/" #O/*-("' #-% O! ((-
O'&" , ! -/ ' NN 'O/# #O/*-(' 26-"/' #%&O/2# 2*+ + "' &"
#. '-"' ' 7*(2*+ +" &" +O%-/" "% $*'% 2*+ + "' &" #*@
7 ! "' ' "%-% #O/*-(' 4& ! ("$$-&# , ! "' &" 4'#"##"/ "% #"
&O %O-&&" #! #*7 ! - / ' " 7'O/# #O/*-(' %O/(4*%"#"
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7'O/# #" %*/(&"(26-"/(' ' NN F' 6". O&
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' D#O/5' 1((" &-"' 5 #O@< ! /' &-" ! E ' " ; ; X '
1-/%#'-"! " #! ! /' &-"! ' * ! ' #" 2" , ! -' 4"! % #%"' 2*+4O'"
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' "9*-/% #" +* / 2O+4'&" ' "(%"(("4O'&"'
/ ' O' " !%@"%'" "/' 2"' +*+"/% 9"' ("'O-(#O/((%-"'
1-' /" +1"#% #" (O 2* ! ' #; $"/#! &O (*-"% " ' ' ' S
' -/ ' O' 1O!%"' "/' . O-/' (" &O((O/%) 4*&-" ! /"
' -+"' ' % ' "4'"/O/% . -/7% $*-(&" 'O ; *% &O ; + " '
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3 ' , ' ' O+ ; 8 ("7"/ O. O-% ' "7/"("4O'O/"% 2-/ , '
+*-(5-&' "(%O44"&" #O/(1 2'-%! ' ((!#' ! ('
' ' ' J> , / ' %" / ' 4' O0(' #O/(
' ! (' "-/' #"' ' ! 2* ! 26# (O/(6*/ / "! " #O/(! /"
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7'O/#(%'O. "'(#O/((*/' "(4'-%' 6O ; -&" #O/(! /'
O%' 1- !(%"'" #O/(&"(2* + ; O%(% +O& (#" #O/(
! /' %' /" *-& %! 2'O-/(1O. "/-"' ' ' ' -'

/' 4' -/2" "(% #O/((*/' %' #/" [' $O+O-(O$$"' +&' "'
' * ' -/ ' ' !9* ! #16 / -' #O/(&" %' #/" "% #" +O-/'
#O/(&O ; * ! "' ' "' O 4' - . ' O' S" (" 'O-(#O/(&" %' #/"
*6' &" 2-"&' -, 1O $O-% /O&%' "' ' " O " ' - ' % ' /' +1O(@
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? ' 3&/ ' 3' M' " 1" : O+-/*/(4*-/% #O/(&O 7'O/#"
'-7 ! " ! ' + ' ' - ' %' O/(. *(; ' ! (, ! "(26O7'-/(
9"' /" 4 ! -(' -"/(2* +4'"/#"' ' ' 1' *! " +*-9" /"
&" 2#&" 4*-/%' 9"' (*16O-%" , ! " &"(26*("($-&&"/%
#O/(&O #"! 2"! ' ' ' / ' O' S" +1O44'*26"
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' ; "6O! $$"' "% #O/((+*-@ +%*"S"#-(>4* ! ' , ! *-' 2' O-/@
#" %O/% 3' Q!" 4" ! %@-&3' 21"(% ! /' "/$O/%' ' M V
' $&& ' , ' ' ' "(("2"%(; %O-"/% 2O26 (
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&"(O #; 2* ! . "%([/* ! ("% - / * ("$O/%(4*! "%OK
+O-(' ' - ; &" ' ! $H '* / 'OO O)H &(("'*/%%*! (
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O ' A' &' 1O$-"' + -% #O/(&" %' #/"' ' ' ' M'
* ! (. -+"(' O&*' (#O/(2"%%"' 4'-/2"(' O!' + -&-"!
#"(O&O' + "(#1 ! /" + ; "' ' &O $*-#! ! /" 26' ; %-"//"
' 9 ' 1"(% 4*! ! , ! *-' %*!% %*+ ; "' "/' + -/"
#O/(' + , " ! ' (5 "% . *("/((%' 4'#; 2-(-$("+4*"%/%
. *%' "O-(*/' -/2"/ %O-/' "% - ' ; (*&! ' ' 1' "% , ! "
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(O7"4* ! "' &" ((* ! %"(, ! -' 4* ! ' 8 $O-'"/ -#O/(&O
4--% ; "/ &O . "'-%O ; &" (O7"((("' ' -; ' O/(&" +O: -+"(
#! '(O& ! %' "(% ! /' +[&(O/(**+4O'O-(*/' 4&! (7'O/#
#" %'*+4" "' , ! " #1"%" %'*+4#' ' ' #
PO ' ' 'O ' ! ' %' ' . ' 4 ' (-% ' ' /18
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&O 4O-:' #O/(&" 4 ; 26#' ' W' ' ' O '
! * ' %' ' O' 4' SMB' &(("'O-"/% ; O4%-(#(#O/(&"
O-/%@ (4'-%' ' ' ' 4 ' O ' :M ' %' - ' 4' R ' 1#@
%O-% 4* ! " ! :' ! /' #" . *-" #" ("2* ' -" &"(4O! . "(#O/(
&" ! "(+O&O#-"(' #" #" ! ("%-'"' #" &O +/#-2-%#' '
' 7 ' ') ' ' / ' ' ' ' W' 4 ' ' &"(%
/# #O/("#2&O% "% #O/(&O 4*+4" #O/(&O $*'%! / "'
#O/(1O ; */#O/2' #O/(&"(O-("("% &"(4&O- -("#"
&O . -"' ' ' . / ' ' / / ' 4 ' M R ' */@
%"+4&"< +"/' #". *-"' #O/(%*$%%"' (O '-7 ! ' '
' &8 ' R ' O '"2*/ / O-((O/2"' "' 4"! %@"&&"' #2&O%"'"
, ! " #O/((O ##4"/#O/2"' &(' . *-"/' &"
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? O#O+"#" ? */%"(4O/"(% ? "/' O-+O ; &" #O/(&"(&O'@
+"("(! i f ' 2 ' = ' # ' ' ' ' ' *'
MB ' 1O ; O#* / /"< 4O('M +* /' -"! ' 2" ! : ' , ! -' . "!@
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4* ' 4"(4'#9! 7#("' ' ' ' 1-/ (%! 2%-* / %"%
&"< ?"#"(+-/-(%"' #" &O 4;O-% / ' "(, ! -&! -' 4O'&" ! ' 4
O!%-; ! /&& #O/(%*! %"(&O (-/#"'-% ; #" -' ' ' "#!! /'
! ' ' ' ' 2O-(. * ! (-/' "< #" 9" ! * ! "#!! /'
*-' , ! "9"' "#. ['"' ' % #O/(&" $-&("/2" 9"' ' "(4'#"#"'
&" 4 H ' & ' ' B' O(! (' (O7H *#-"! :' "&&"'
O ' " , ! &O -"@ ' # ' / ' ' $O-' . -"'-&&-' #O/(&O
+-(; ' "%#O/(1*44*; ' ' ' Q!-' "%@
' , ! -' #O/(1 ; O%% *$-' 1* / ' +1O + -(O &" #' * % -%#1" : -@
7"' #O. O/%O7"'3'9 'S' ' . --- ' *-/' #"
(1"/("' "&-" #O/((! /' +O'-' 21"(% 2"&! -' #" %*-/(&"(
6*+ + " (, ! "&&" (. *-"/% &" +*-/(G 9
V* ' 1 , ' " . *-& /!#O/(+ O 4' 4"K
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' %' ' % ' "(%#O/(' ("# 4O'$*-(4* ! ' (-7/-$-"'
-& O44O'%"/O/% ' %"(-+4&"#O/(&" 4' 4*'%*-/% #" #O/((*/'
2O'O2%"' "% $O-'"' #O/((-/ 2O'O2%"' "(+" %" (*/ 4'-/2-4" !
#"(%-/ ; "% #"$&-"' +-(; O/(&" '"+4*-' #" ; O ; #! ' ! (4O'@
(-" #"(#" 2"% "% #O/(O!%' "(#"$" &O -"*O/2&O ; O-/(O&* ! ! "(
"/2"'/-' +1-%%2"/"+"/% ' "!%! 4O(#O/(+"/% 4* ! '4O'@
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&O 26"' "(%O/(- ; -&"("/%(((O-"' */("(26"/(4O! ' , ! (O' (("(@
2*! '("% 4*! ' &" +O/(#* / /" 4"! ' -&&"/% , ! " ' "(-/ h '
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#-(4O'O-(*! ' 4O'%-% 468(-' "' +*'O/ %" #O/(&O 2*! ' 4 H '
%"!' "/ 2* /%-/"' / -' ' "' #O/(&O 9*-"' #O/(&O #*! ' ! & ! "
#O/(&O +-([' ' -' " #O/(1O%%"/%"' ' #O/(1"(4;@
'O/2" #O/(&O 2'O-/%" #O/(; ' "/' (O ; ' O-("+@
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%" ! ' #O/(+O #" 4*-/%' &" 8' ! "' ' ' "% #*'! "%@
O ! 9 * ! #16! -' "' ' #O/(! /" 6! + ! /' # ; (* ? -7' O/ O$%@
' ' A' 1-+O7-/O ; ! ! -& ' ' ' ' "/' -/ ("/% 4'* 4'-"+"
O/(2"%%%' O/ -/% ; &O-/" + ' ' ' +O/% O/ "/ ; "
(2$'/'*-&-#" .O-%(" 4O((""%O/% ! O "/%"' ' ' ' -1 '
O' M' O/ (&1"' (4O/' O2" 'O/ ! 26 ' " ' O' "- ' 1O/ O-' "
(* O' (1"' ' "4* ' 6'O/2&'" O-/(' ' A' &7 "' ' ' %! "(% +O-K
/ (! /"&O' (-%% "+4-"/% O/ ("% 2"% ; 1&-' ; #O/(1"/O-"/(
&O%O/% $! ' "* $ (* ! /"-* / /1"%O%O+-' "%&O/ 4'"(" (%%6-/ ' (*
(O-("/(! -% ' ' ' 2 ! ' "' ' (7&O/%' , ' ' ' ' ' '
9 ' O/(&"' #* ! %"' ' "% #* ! /%-% #O/((-+* ' ! ' ; O4' "'
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4' -+O/% ! /' 'O44"'"% #" &-"' ! ' O. "* 1-##' " , !1*/' . O
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' "/%'O #O/(1O44O'%"/ "+"/%' /% ' "<#O/(2"%%%"4*'%"' '
= ' ' ' M' * ! (O&& [+"(' &" &"/#"@
+O-/' , ! -' #%O-% 9" ! #-' #O/(O/' &-" ! ' , O1 * / 'O44"&&"
1 ' -"/%' [' ! /" &-" ! ' #O/(&O +" ' ' ($-. ' %O O*#%
BB) ' ! &9" ' . -"/(#O/((* /' %"+4&"' O#*'"' 1 %"'@
/"&' ' & ' ' - ' 1! /' #1"! : ' 2* /#O+ / ; ' [+*' -
4O" &" %8'O/ ' #" +O/#O/ 4O" 7' [2" , !1-& &! -' $##% 4"'@
+-(#" $O! ' ! /' . *8O7" #O/((O 4O%-' 4* ! ' 8' ; @
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#O((*/' %" #%' --' ; %O ; &-% +*/ ' 4 ; '"' ' ' 9 ' ' &'
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&; . " #O/(&" %" #/" "% #% ' [&O 4' -/2" (" + ' ' *@
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, !1* 26" #; 2&O'O-"O% &O 7 ! ! "' [O ; -(%O'O/ % ' 4O' "%"'
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. *-"' 4O%"' "& ' ' O&/ ' ' ' %' 4*! %' / *! ' (; &" ' " ' '
#"(2"/#O/(&" /"(%4O' &" 2&O-' #" + +"' -&&O-/% &O ; ' &"
' -7 ' O/((" -/% , !O/% ! /" 4"&-%"'"/2*/%' " ($ O- '
! /" 26O/(#O/(&O #" 1-/%*&"'O/ 2" "/ 2"%%" 2-%# #O/(&O4 /@
(; " ! ' (7O'" ; &O , ! "&&"' . -"/ 4" ! %"% +-%O/% ! / 4*!% !
. !" , ! " 2"&&" #" &O ; ! % . *%' "#" -/ 4' "'("/ %"' "# ; #"(
#*'+O-% *' (O/(("(("-/% &O 4-"' ' "' -/ ! ' "/% ; ' "/ "$$"% &
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2O'O2%"' "(! /% O ' ' / ' ' (O ; ' ' 4O' "+" /+(4O' "&&"
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O ; ; ; "' ' 2"&O "(% #O/(! /"/%*&"' %*$; (@
' 2 ! ' "% !' 2"+"/% ; ! "O' ' O -' ' ; (O/(4O'%" ! /'
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&" 4&! ((O/("(' "!% 4O'&O ' #O/(1* ' O, ! " #"
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#O/(; -"/ #" +O-(*/' #O/(&" 2O#' ' #O/(4*! ' 2O'%*&-+
4*-/%' ' ' "4O' 2"' , !"&!'(" #O/(&" , !' 2"%%"2 -; &" , ! (
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4'O/ 2"' 'O-("/ &O 4O' "% #" 7'O/#(' 4' - -
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O#*'"' !' ' "(%"' &-(-' 4O'%"/ %"'"
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[illegible]

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& " ' ' ' '&!"/'/"&!-'4!%'##;'*!-&&"'&"' +8(@
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^ ,!"'&"'*-'21"(%06@-'" -"!'40"&!-'(!'+*/%"'O'%*!(
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(.' ' +0'('&*((' '#e'*!-' "'O %*!%' 2"' +#@
&0/7"'#"'40((-*/' "%'#"' '0-(*/' '(#40'"'O 1!/"'#!O@
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'/!8'O'#*/" ,!6'##;'*!-&&"'&"' '".'"/!'#"' 2;02!/'
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4'MA' -&&*/'(!%'&"'4'"+-"'-'#0/7'2"('(-#2&"('7'*(@
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7#0/%(5-& ##;'*!-&&"'+#+"' 16*"'-;&"'260*('#"('#"!:'
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+& "'$-(' '#'#%-+0/&#"' O/#' '"%'-&O'&"' +0&;"!'
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2" 7!-' (-"# ;-"/5 &0 2*/'"/0/2"' 2" ,!-2*/.-"/%' 04';(',!!-&0 %'0+*&&-."'('(*/' +-&-"!'NN d "'+" "!" 26"-:' ##2"/""&0 2*!'*//" 9 ' A "
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02%-*/@,!-+ '-%" !/' ;& +" +*'0&5 ,!0/#*/'4 26/ #2"/%"' P' ' -'"# 2"/%' ' (,!" 1*;9"% #" 2"%0-/"(2*+407/-"(' "('4'-:',!" 1 20##+-"
2*/%'"&0;-"/(0/2"*!' &02*/'"/0/2"'*/'2*++"% "(%'044'*26'*!' &"('(!9"%+8*4"' -& (!'.-"/%"/%'" ##""'/" %*!('&"('0/(' "#0 60&&"(02%-*/('NN & ("#-%
!/" 02%-*/',!-+ '-%" !/' ; +" +*-/('7'0." "% ,!- 1022*+'/*#0%-*/' "% &0 2*/."'7"/2" #-((*2-0%-*/' 0!((-#"('4'-:'#"('2*&#7"(' /' ##"'/" &"('4'-:'
/" 4*'%" 40'(!" -0 +*'0&-% 0 #-(%-/2%-*/'"/&"'"0 #60'+*/-" -&-6!% ,!" &"(' 2'-(%0&-/('("# 2"/@ &0$-/'#" 10//#" (2*&0-'" NN -7' #2"'/"" -0 40&+"
;-"/(0/2"' "% &0 2*/'"/0/2" "(% 4&!('(!;%-&"5 4*!'@ %'"/%40"!/"$$*'%(4*/%0/ ' " ! " ' ' ' ,!"&,!!!/' ##2&0'" (0 (!4#'-*'-%# (!" ("(' '-@
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-&"&&"#-%$-7!'"5 0."2 2*/'"/0/2"'&*'(,!!-& /18 ##""4%$$(' "4'# "/% ##""4%-$ $H!/" '*;" "+4*-@ "% 4*+4"!:'9 ' ' 1 /' 'ADDD'
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4ʼ 1"(%@2" 40('&" 2*+;&"#"#" 1*'7!"-&"%#" &Ơ%#++#@
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(*-%#+*4#" #0/((0##2-(-*/ʼ "% #" 2'0-/#'"ʼ 40(
#"("%'*+4"'%("@+#+"" /'##2-#0/2" /%'"'&&"'3)ʼ
ʼ ʼ "6Aʼ "%%"4'#(*+4-%'/'0 Q!-4'#%"/#
%*!%'0/7"ʼ ʼ (Ơ ##2-(%*/8M &ʼ A ʼ $ʼ ʼ
0'!ʼ 2*+#" "(0!%'" "$ "-"('((1#%#//" #" /"
4*-/%'"%'*!."!."/'&!&9 04*&#*/J2"%%"##2-(-*/ʼ.- "
+*;-&"% "% '04-#" 2*++" &"(2-'2*0(%0/2"(($-
ʼ ʼ ? . + ʼ ʼ N "'+"#"#'*-%'"+0-/ʼ
#2-($;/('#" !(%%"-"#ʼ &"(2-/,!0/%@"*/(%-%!%-*/(
"/#!"(40" 2"%ʼ "+4"'"!'ʼ 504'#a H4!;&-20%-*/#!
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&!%-*/ʼ '"/#!" *!ʼ $*'+"'"!/" ##2-(-*/ʼ 7
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26*("("% /1#%0-% 40(!ʼ #'##2&0+0%"!'ʼ ʼ &/ ʼ
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@-ʼ ʼ #9" &-."+"/% ,("%&&" ##2&0+0%"!'" /ʼ
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"%#2-%"" /ʼ /*%"(,!-##%" +-/0%"'/'% *' ,!--$0 0-%
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0-"/%4!90+0-(/"%"'*%(&"(404*"2*++"/'*!!(/"@
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%0&"/%-4*'%0/%ʼ ##2&0+0%"!'ʼ6"<&"("+0-/0
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#"'40(0#&*/(,!"%0/%!'2"&!-,!"&!- b
1 *!(%"%!!%0!-+4*-(!44'"$"%'&ʼ ,!*!&"#"2*'"
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.#'0/(&"0"%4'0%*!"#"+0/(0/"7'0/#"!'#"'"8&"(-*/
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+%(0/-;0&"/%"("+"7&/"'#$*-("/" %'"(4*/"4'"/#40(
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40'*&-/&%"'(#-/(4'*&"+"/%7'#2"0%*!%,!-+0%-"'
2"&!-,!-0(*!#+0/0/0/% /"(0#&#7/"7'0+"/%-/%0!:
!/+0-/%+"/%#"2*//0%%'"!/"#"/0%-*/#4'0%+&&!%
#"2!/+"(2*/20&-*/+/"#"0/2*+4(%-+*/0%&#"2"
'"&-"(%"4&!%0/(#-!(0/(&*/0-&"+"/%,!-(0/(2"(("/%
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&"/#*-%&0/(%-%!%0!""/%"/(/"4*!-((0/%0-/(-'-"/%0'+

0+4&'" "% 0-(a' "% &'" 'f2-%O%-$ (-' 1"/*/2-0/*/' ("
$O-% (!-.0*% -"(' #"7'H(' #" 1H26"&&" +!(-20&"' O' #"K
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044!-" #0.0/%07" (!"&"(' (8&&O;"(' (*/*'"(' *!' +!"%@
%"(' (!" &"(' &-O-(*/(' (!" &"(' 022"/%(' %#/-,!"(' "%
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' F' "+4&-' #" #"2&O+O%-*/(' %8&" #"#O+O%*-'"
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-/%*/O%-*/(' 2:-7""(' 40" 1022"/% 7'0++O%-20&"% 102@
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(*/' 7'" 9!(,! [' (O' #"'/-$"' 6"!'"' Q!1-&' %'-*+46"
"/' 40'&O/%' ,!1*/' 10#+-'" "% ,!1-&' +"!'"' '
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&*' O."2' .-*&"/2" 2"/%'" ,!"&,!1!/' 2"/%'" ,!"&,!"
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ˢ# $ ˢ! *
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#1O'%-&&"'-"ˢ :#2!%"" &" #"2*'#*//O7"
ˢM ˢ! ˢ4'"$-:"ˢ"%2*'#*/
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4'" "% #!ˢ(2"4%'" #!ˢ +O&%'ˢ -/ˢ $ ˢ--ˢ% J&Oˢ -(@
(-+!-"40'ˢ Ơ%-+-#-%" #"2*'"'#!'/*+"#" 4'!#"/2"ˢ
ˢYd Q!-Ơ '",!ˢ &Ơ #"2*'O%-*/#!!/*'#'"#"26".O@
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#16*//"!'ˢN ˢ+ˢ / #"2*'#ˢ&"(#"2*'#(ˢ +!-ˢ
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ˢ - ˢ:.-I(ˢ Q!" 4*!" #" #"2*'"+"/% #" (*/ˢ
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2*'"ˢ "+;"&&-%%*!(&"(&-"!:ˢ ,!1-& $'#, !"/%"ˢ ˢ
4 ˢ "(#*/(&"(4&!(6"!."!:##2*'"/%2" 7!""@
'-"'ˢ1 ˢ ˢ ˢ!ˢ ˢ&O7ˢ 2" ##2*'O-%(*/
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[redacted]

[illegible]

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[illegible]

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[illegible]

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+O&6"!"'!:' ['%*/(&"(%'O-%(#" &"!'("'//"+-('
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;&2A<+ ?92B0 ' & ' 0 "' + 82' 4 254' :B3
42' 82' ; +2B 42' B2" ' = ' +, ' "C ; +
8&25' 4 254 3 .: ; ; 2' 4!95' .B ; 20 ' ' -^
B 5.20 42 .2' 42E: B' @2' 52' <9 8' ; 2' 4 254B20
' ' E0' F' ' 8&25' 4G 254 3' H4& 3B2' 3:'B: !' 8 58' 8& *
; :9E: B0 # ' 9 ' ' 3' 5:98 ; 28' B B280 5:98
5:98' 4 254:58' 42' + ' B2<93 3 :5' 4&=: ; ; 2' @9832' 23
.B J5 53 290 .: ; ; 2' 4&95'+3B2' 42' =:532' 23' 4& 5*
; 20 ' ' $ 6, ' 49' ' 28' 429A' .:5K
89+8 '82' 4 254 B253' 4& G:B4' 42' <B254B2' .:55 8*
8 5.2' 4&952' B2' ?9' 8& 3 3 < 88' 2 +:=J32 ; <8
E 53 +29B .:5 9+ 30 9 ' < / ' + E' 50
<' % ' +2' 283' G ; ; 2' 8 ; B 3 520 23' < B' "2+2' 82
42 254' 4& ..:B42B' 9' 9E29B .2' ?92' 8 'G:532' 42K
; 548' 4&2+20 ' # ' LL ' 2
. .=2B' 4&952' .=:820 + ' 5 2B' ' :98' 52' E:98' B2542M
< 8' 25.:B20 23' E:98' E:98' 42 2542M 4&23B2' ; 242. 50
? A ' ' , ' 0' N' +2' 82' 42 254' :B3' 4& <*
<B254B2' + ' <= +:8:<= 20' 8 ' " F' $92+?928*958
82' 42 254253' 42' B2' 428' E2B80 +0 ' 9' >2' 52
;&25' 42 2548' <: 53' ; 28' <+29B80 G2++2' B <= +20' 2
3 254B 253' < 8' +:5J32 ; <8' .:53B2' +28' 8: 58' 4& .= ++20
' $" ' 30 ' 5' =: ; ; 20' 82' 3B:9E 53 " 8 58
:5.3 :58' << B25328' ; & G:B4 ' ; +2B2 ; 2530 ; 2
42 ; 54 ' .:5 42 ; ; 253' 8'@2' 5&23 8' <: 53' 93298' 42
.2B3 528' GB:.=9B280' @2' ; &25' 42 254 8' :B30 <' '
.:9 ' 0 " ' ' " ' LL 6' &2A.982B' >2' ; &25
89 8' 42 2549' +2' ; : 58' GB93 +2 ; 253' ?9& + ; & '232' <:8K
8 G+20 ? - ' 2 ' C LL 0 &2 ; <2.=2B' 42' >& '
.B9' =:5329A' 4& ; 2B' ?9 54' :5' 5&283' <+98' + ; G+2
>& ' E:9+9' ; &25' 42 254B20 " E: B' ; 28' .=2E29A' JB 80
' # ' E0 ' + 52' <293' 82' 42 254B2' 4& ; 2B
.2332' E2B39' 4:9.20 # ' ' AE' Q
- ' ' !' ' ' 2 254B20 9' 8258' 42' <B:= G2B0 E293
' 42E 53' 95' 5 5 3 ' :9' +, ' 23+2' 89G@:5.3 ' 3' 42K
254' 4& ++2B0 + 42 254' ?9&:5' +2' LL ' + 254B20
4 58' +2' 8258' 42' <B:G G2B0 89 E' 4&95' E2BG20 52' E293
< 8' ?92' .2' E2BG2' <B2552' + ' < B3 .9+2"52' >2' 42 2548
?92' E:98' 88' 2M .2+ 0 23' 5:5'@2' 42 2548' ?92' E:98' 52
88' 2M .2+ ' .2332' 42B5 2B2' 3:9B59B20 .&283*"*4 B2'
&2 ; <+: ' 42' ' 2A<2 ' E2. ' ' 23 3 3B28*
9892++2' 9' AE 6' 8 G.+2' 23' 9< B E 53' LL ' ' +2' E2BG2' L
283' " & 5 5 3 0 + ' < B3 .9+2' 52' 52' 82' ; 23' @ ; 8'
>2' E:98' 42 2548' 4&R + 2B' Q 9' .:53B B20 +2' AE 0 8' 26
.+2' ; 233 3' E:+:5+ 2B8' ' 52J 3 :5' >2' E:98' 42 2548
42' 5&R' < 8' + 2B/' ' :9B3 530' 8' +2' E2BG2' 283' " & 5 *
5 3 '23' :583B9 3 2.' " , '6 ' ?92+?928' 2.B *
E 58' <53' 2 ; <+:R2' +2' ' + +29B' 4 .+ B ' ?9& + +29B
42 254 3' 42' 52' <+98' 8:5J2B' " .2' ; B J2' 8' E' =
"7 42.' NC 'QB24 3 :5' 42' ! ' 2J5 2B0?9 '4: 3 B2
93:B 320' 5& < 8.2' 52/' ++9 ' 42 254 3' E2.'49 232' 42
52' @ ; 8' 82' <B282532B' 42E 53' +9 0' 9 5' 8 +
.: ; G 250 E2.' +28' E2BG28' 2A<B ; 53' 4:9320 .B 5320
2 ; < .=2 ; 2530' 23.' +2' ' 2A<+ 3 ' 283' B2?9253' 5
52' <293' 4:52' 4 B2' ?92' .' .2 8: + 952' EB 2 932
829+2 ; 253' :5' 4: 3' 8 E: B' ?92' &98 J2' 8&283' <B:5:5.2
.:53B2' .23' 2 ; <+: 0' 23+&:5' 4 B ' + +:9B' 42 254 3' 42
8:5J2B' 4 E 53 J2' " .2' ; B J2' ' +9' 42 254 3' 42' 82
<B282532B' @ ; 8' 42E 53' +9

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%O.O%*!% ;'-('#"#"!:'2*!4(#"20 /* /' .*- ' S
'B$$' R' ' $-&""&O 40'0#"' #"$-&""04' (&O 40K
'0#"' ' -7' O/(&" &O/707" %*!% '$O-% .!&70-'"'
#"$-&""&O 40'0#"' + *!'-'NN ! ;(%O/%-."+"/%' 1O*@
%-*/' #"(%'*!4"(, !-' # $-&"/%' /' ;"O!' #"$-&""'
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' B' 0+-&- '"+"/%' ?*!'-" '4"!' #!-/%"'.0&&"&"(
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7'0+ + 0-'"' "%"'+-/"' "/(# $-/-'NN '%-2&" # $-/-'
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/"&' 40"*44*(-%-*/' /' 1-/$-%-$"%O!' 40"%-2-4"' , !!*/'
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[illegible]

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#!'%"+4&" U#"&0 7&*&"'J' /' 70'#"&"(#"7';(
' (20&-"' "+;'+"' ?-'*/'%'*!.0'
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[illegible]

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'PN 3'/' *'%-'"(""%-'"" #!!/' &-"!' +O&7'# (*-'
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O!%"'"'!4 ##'#"/'(-+-&O-'" Q!-' 2"/%'-/O&" &-;"
%"#-(O/%4"'(#"'/O/%" O!%'"4"'%"'"'"/-+-' +' NN ##@
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'O/#"@ '"%O7/"' !%"'!'(##7!-(#"4A ' l' -7'
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,!-%!O ,!!*/'O/%4"'(*//"/%4*!' /"'#"'-/O!/'"'"'
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' ?' #. 4*' 'O';'"'"%'E-)*3'4&"'"
$' 'D#-/@#'*@&*@9-,E' ' ' "'+"'#-@
#O2%-,!"' 'O-%'(!"&"' 'O';' 'O'%-"'#"' &O';*%O/-@
,!"' ,!-'(1*22!4"'#"('O';'"(
' ?' #.34*.'O';'"'"%O*8*2'%'O-%-
'%'6#H6), # 'D#-/@#'*@+-@%'1='('+' /(%'!K
+"/%'4'*4'"' '+"(!'"' &O'7'*(("!' "%' 60!%"!"
#"('O';'"(
' ?' ". 4* 'O';'"'"&
H ? Q 'D#-/@#'*@+-@%'-@[1E'O#'
Z!-'O''O44*'%'O!'#"/#'*+-%"'
%' 'D#-/@#'*@$O@9!E' 6' "'+"'
#!6-(%*-'"' /O%!'"&&"'Q!-'+O/7"''*'7"' &"' ;*-('"/'
4O'&O/%'#"('-/('2%"(
' ?' . 4*.'O';'"'"%'4O8(.' +O/7"'
%' .# #-O&#.)' D#-/@/-HO@%"!'E' ' ' -*&*@
7-(+"' "&!-',!-'/-"
' ?' O%' ' #"' ?'#-/-"'
D.*8'/"+ E
' # #-O& ,H'D#-/@-@7O@(-*/5"'/'4*-(-"'#"'2-/,'
(8&&O;"(E' ' ' "'+"'#"'9!'-(4'!#"/2"' 2%-*/'#"
/-"''#"'2*/%"(%"' -/-7O%-*/'#!!/'#'*-%' N "K
2&O'O%-*/'40"'&O,!"&&"+'/'(*!%-"/%',!!!/'$O-%'(%$"!&'
' /-7O%-*O' #! 2'-%!'"' O2%-*/'#"' #-/-"' 1-2'-%
,!!*/'/*!(*44*("'N O/(&"'&O/707"7-/-'O&'O2%-*/'
#"'/-"' "(# /-7O%-*/(@/%'$!'"/%'4O('2'!"(
' I'(' -' +-"'$-(%' "/' U1 /J (*++O#*/
"' *!&*-"'&O'1^ "O/'%*8'"/#'"' */%'$-"/%'#"/"@
7O2-*/' ;X-(' ,/1-&O'("@ *!&*-"/%' #"$-%"/#"' > !'
& - P' 9 ')'H ' 4'%"'#O/('
2* 'U'-.-I'(' */%' (1"/'"(%*-%"/(!8'-"'&O'4'%"'
#"'&O'G;: -'#"' ?-&O/' "%' &O'#"/"7O%-*/'#"('#"*-%('
#"'(*!-Xt'O-/"%-' -#"' &O/#"'("%$ '%6*-('
Y ' '*-;&"' U#"' 4*(("((-*/J (1"/%"/#'/*/'("!&"@@
+"/%'40" *-"'#"' $O-%'+O-('40"' #"/"7O%-*/'9!#-@
2-O-'"'& %' AX-' H'
' ?' O%' ' #$/-"'
' 'D#-@/-@7O@%*-@']' 6' "'+"'
#"'4'O%-,!"' :2"4%-*/' #-/-7O%-*'"' (86*/8+"'#"'
#-/#7OI-*/
' &' ?' O%' 'D'*8'"# @

%'6# # 'D#-@/#@'O&E' ' ' &O,!"' '*/#"' ("'K
.O/%'#"' +*#"&"'O!'+*//O8"!' 4M!"' $O-'"' !/"'*(@
4;"'#"' &O'7'O/#"!' "%'#!'4*-#(1 ' "'#-/-'O&
("'.O/%'#"'%84"'4*!"&"'#-O+;%"' "%'&"' 4*-#('-&8'O
4*!"' 260,!"' 4-&2"' !/'#;/-'O&#!'4*-#('4';"-(!/'
("2*/#'#!'4*-#(%*&;'#O!'+O:-+!+'"%'4/'%'*-(-;+"'
#!'4*-#(%*&;'#O!'+-/-+!+' ' I%&," , '
"(#;/;'O!:
' ?' O(@&O%'#"/O'%O-%('#"' ,'#"/-"'
6# 'D##@/-E' ' 'N$ I' 2%-*/'#"/-"' ' "#;/-',!"
$O-%'&"' +-/-(%'"' #!O.*-'2*/("/%-'O!'4*'%'#"('O'+"('
' 9 '(I' *'j')' N I' "'+"'#"' 9!'-(4'!K
#"/2"' "$! ' #!!/"' 26*("' #!"' ;-' #!O&-+"/%('
;/-'#"'9!(%-2"' +O/,!"+"/%#!!/'9!7"' ' '"/#'"' &O
9!(%-2"' ,!!*/' &!-' #"+O/#"' (*-&'40"' '"$!(' (*-&'40"
/;7 7"/2"' N O/(' &"' &O/707"7;/;'O&'#;/-'#"'9!(K
%-2"' ("'#-%'#"'%*!%' '"$!('#!O22*'#"' ' ,!"&,!!!/'2"
,!-'&!-'"(%##
' ' O I'(' '"6&'#!*;"-((O/"' '/!O! ' 9 '
%:-.' "/-'*!'#"/-"'#"'9!(%-2"' *!'#"' #'*-%'"!"(%
,!O/#'&"' ("-7/"!'"9!(%-2-"'*!'("('*$$-2"'('"$!("/%
'$O-'"' 9!(%-2"' O!:'40'%-"(' &-%-7O/%"(' O '
2 ' ,' '
'# $ ' *8'/$- -
' 'D#;@/-@;@<;' M 6 " ' ' /' '
7O',*/'#;/-O-(;'40"'&"'(;9*!"'#"' O'-(' '8'O'4*!'@
%O/%'&*'/7%"'+4(',!!-&'"(%'&O, O-(5'-&'#".'O-%'%"'#;K
/-O-(;' ' 9, ' ' O?"'2"'"%'4&!(9"!/"'
"%+*-/(#;/-O-(;",!"'&O' -'O!#'-' ' 8' /'
' O/(&"'&O/707"'&-;'"'$-&&"#;/-O-(;'!/"'$-&&"
,!-'O4"'#%%(*/-/*2"/2"' */%' &-;'26/*/'"/2*"#;@
/-O-(;"' ' 6-O;&"'/' 'N !;(%O/%-."+"/%'
1"(%'!/'#;/-O-(;' "1"(%'!/'6*++"' O#'*-%' "%' (;
$'"#H O 8#%[&'D#;@/-@;@<"@+O/E' ' 2%-*/'
#"'#;/&O-("'' #"'#;%'*+"4"'&"('/-O-(
' ?' !
'D#;@/-@;@-;E'/' O'9N-I' "/#'"' ,!"&K
,!!/' +*-/(' /-O-(' +*-/(' (-+4&"' +*-/(' 7O!26"'
' '*/-,!"+"/%'%'*+4"' ,!"&,!!!/'O;!("'#"'(O
(-+4&-*-%' /' 1O'#;/-O-(;'#;('(*/'O'-.;' 'O'-('
Q!"' &"'!'(' 2!-(-/-"'(' ;'$-&"/%'&"'!'(' .&O/#"(' "%'
7 %"/%'&"'!'(' (O!2"('"%'&"(";%!('"%'&"(' 26O%'&"("
/-O- "/%' "G ' =, &
, 'N "' #;/-O-("'. ' ' "(("' #;%"'
/-O-(' $-/'#"' +"' #;/-O-("' 9"'(!-('"(*&!'*"' .*-'
!/'4"!'&"'+*/#"' 9 = 'P ' %'+"'#*-%#"' !O'@
7"/%' +O-(' ("6"&O'4O("'-&' (!4"' ,!"&@
,!"$"'+O-('"6"&O'."!."#!!/'40'%-(O/' ' 3 '
#, '(2'A' "'+*/#"' ("#;/-O-("'$!'-"!("+"/%'
"%&"(2!-(%'"('#!'("-<-;+"'(-;2&'/!*/%40(';"O!9"!'
' = ' & '9O/.' AMM
' ?' O */%O-/"'O$O-%' '#"' %'*-('(8&K
&O;"(' .*8' 1":"+4&"'O!'40'%-2-4"5' "' ,!-'/!"(%'40('
'-+-%"' ' ;%O/%%*!9"!'(' #"#"!:'(8-&O;"(
' O I'('Q!"&&"';&-7O%-*/' /!O.*'/*!'('
&O;"/-7/-%;'#"/*(-"'"(*!.""O-/" ' "O%"!''4*!'O.4"
#"(/-O-(;'/*(%"2"'O/2"' (.O7O;*/#"("O%;' ;"O!'
%'O-"'(#".*%-*/(' "%'1O.*-"&*7;/"/#!"2"'"&&"';O("
#"'(O(O-/2%'40'*&"' ' ' / 'O-O' ?O'$-&&"' /"2*+K
+"/2"'"/2*"' ,!'("#"/-O-("&O/O-.%";#"'1"/@
$O/2"' c ' #O/(' ' ' ' N S" .*!('#"K
+O/#"'(-'1O(%'&*7-"' ' /*!(;('40(%-*/'"/2"((-"'
,!O/#'2"' /"' ("%*-%,!"'4*!'"+4"(";"' ,!*/'/*!(
#"/-O-(O-/%"'O(%";!"'4*!'40'%"'!'!'&"('#"'!"(%-("
#"/-O-(O-/%"'O(%';!"'4*!'40'%"'!'/"&&"('#"'!%"'&"('
'"(' ' #*/-(' O!'#"(!'-(' "'O' ' ' #-(' #"'
#"'/-O-(;'/*/%O-/"(' "%-%"'*' +"' ' ' */*!(
4*!'"'*/%'"%-&'("/("#"'(/-O-(' ("(!'*(4-/O-('
;O!K'%-*/ ' ' #' ' Y)
' # $ ' ! '4';$-:'"%
%' 'D#;@/-@;@<"'/'E' ' + ' "&!-' ,!-
#;/-O-("'N "&!-' ,!-'%'*+4"
' +('O I'(' "('#"/-O-("'(' ,!-' a' %'*!."/%
"/' ".O/%' ."/#"/%'"('*!"&&"(#"('#"/%' "*6O'%
4*!"'2*'/"('#"' &-2*+"' '= 'M
'# $ ' !
Y' 6#H 7/#'#' D#;@/- ' ' ' "E'4O'-'4*((#
#"'#;/-26"'-' N d -' ' #!'/-#' "(*- "O!:'#;/-@
"6;('4O"'#"'4"%-%('4O8(O+'"N d ;2*!."%' "'.*@
&"'!$('#;/-26;('#O4"'&"'!"'"4O-"'UN)d 6O((;'#!!/'
4*(%"'&!!/"'"%'O-%"' "(+O'O!#"'!'(#;/-26;('#!'
.-&&O7"'*#' -&' (1;%O-"/%'4*(%(;
J'6#% 7/#'#' D#;@/-@26;' 2;;"E 4O'$' "
#"'#;/-26"'' "' /'"(%O&!'"'%-"(;;'"'
;' #H 7)#)'D#;@/-@26;E'P'O'N-d' /&"."' #
/-#' ;/-26"'#"('*-("O!:' N -7' /'4O'&O/%'#"'&*!%
;9"%'.-.'"+"/%'#;("-;'%'(;.;'"+"/%7O'#;' ,!' "
O((-+-&' ' !/'*-("(O!'4O'%-2!' "#!!/"9"!/"'
$-&&"' S"&&'*-("O!'+O$*-&'#-$$-2-&"' '#;/-26"') 9 '
' 1' '#"'-' 'N7d ;2*!.'-"'&O'"%2O-%"'#"',!"&K
,!!/'' '$*'2"'#"''"26"'26"(' -' 9' O-'#;/-26;'2"

/1"(&'4O('(O/(' 4"-/"' $;2*!.'-"'!/'*;9"%' 'O'"'
2!'-"!:'S"' /"'(O-('*#'-&'"(%O&&;'#;/-26"' 2"&O'&(
U?+"'#"' ; %-&&*/'"%'(*/'$';'"J'26"'26;'"/%'!/"'
$*'%!/"' ' *!%%"'.-&&"'"%'-&('#;/-26;'"/%'2"'+O'-O7O
#!'("2*/#&-%'#"' 16;'-%-;'"'#"' -/"8O."2'?'#"' &"'K
+*/%' @(- ' M' B)' O/('/*(' ;*-('(*!."/%#;('
!O!'*'"'S!O-'#;/-26;'#"$'O-('O44O(' # 9 , '
* " ' /'4O7"' "/-2;O/%'"/$-/'' ('/'%*!"' -&&(
#"' .-/7%'O/('/"!." - (O7"' - S$' '
' YI' -7' "%'$O+-&-;'"+"/%'#;;!(,!"'#!!/'4*(%"'
#!!/'""%'O-%"' ;/-26"'&"("//"+-('#!!/'$*'%' ;K
/-26"'&"(' .*&"!'('#"'&"!%''%'O-%"'N F' 9'/' ' ;O/@
#*//"'&"' /-#' '*/('"(' *-("O!:'*/%'#;/-26'2"
+O%-/' -7' *'%-'(1;.O#"'O."2'4"'2-4-%O%-*/'@
/-26"*/('#"' ';O/'"%'(O/(2;'+*/'-' 9
!'A' -7' "(*-("O!:'*/%#;/-26;'*!'(*/%#;/-K
26;(' "'#-%' "/'40'&O/%'#"'7"/'40'%-('#"'4'-(*/
/-"'(;.O#;'("%2
' ?' ;/-26"'' ' "('2*/9!7!"'O."2'!O!!-@
&-O-"' / ,!O/#*/'"' "4'-+"'!O2%-*/'4'-&"('4'-/@
/-"'('*/'#;/-26;'2"'+O%-/' O."2' !O!-&-O-"'
,!O/#*/'"' "4'-+"' !;%O/%'-&('*/'#;/-26;(' #"4!-(
2"'+O%-/
' O I'('S"' +!"/'-O-'"&'"7/'#"' *-%"'(5
"(%'O-%*'(-O+%+!&%6"' ;"'7-"<5?['(' ' '
7"(' U9"'#"('J $"'O-#"(/-26"' ' '= '
')AB' ' O I'(' !((-$-(%' O&'"'/%' ,!-'2'-*-%
6O!&'2'-' 5' -"' "7*'%' -"' -"!:'O-#"< /*!('O!
9*!'#!!-' $-/', !"'#"(/-26"' 4!-(*/('2"' +O'.*-@
(-/' 2 ' A AA' !' +O%-/' D-&9 (' .O/%O'#".O/%
%*!%&"'4'-/2-"'U&"('4'-/2"(J'Q!!O-/,*-('-&'(*-&"%
/-O-(' 2'-' *'4'"/#' 6-(%*-,!"'*/' .*-%'#O/('&"' 4&!(
O/2-"/'"'":"+4&"' ' * '. !-'(%'$O-'"(*'K
%-"'#!/-#' '&' *)'O4'-('$O2-&2+"/%'&"' ("/(
#"'#;!(,!"' ' ' (O/(' !!-&' (*-&' /;""((O-"#" ' "2*!@
' ' +O&7' ;&"' .*-(-/O7"'#"('(-7/-$-20%-*/(
#"'4&!('&O'$*'+"' ' ,!-' ("' 4';%' ' '4O'O%
;%O'O7' % *
' $- & && 'D#;@/-@26;E'X' ' Q%"'"-#"."'
#!!/"'/-26"' ;/-26"' !/"'(%O%!"
'# $ ' ! '4';$-:"'%' *
"#H 7>#>?' : *1 , 5' ' 9 %I' "-!-' ,!-
#;/-26"'&"('4"%-%('*-("O!:'N O++-&-;'"+"/%' /'#;@
/-26"'#"'+"&"('!/'6*++"'O#'*-%'"(',!-'"(%' O$@
'#%'#"(' ;*//"(' "' *220(-*/(' "' 7'O/#'#"/-26"!'#"
+"'&"('%' %' - '&AMR'*S!@
/ ' %' :/-'4'(*'#O/(N ;/-26"!'#"'
$O ."%%"' '26".O&-"'#!-/#!(%'-"',!-'.O26"'26"'',!"&@
,!"' ;/-#'/-#' ,/"&,!"' $"+""' ,!-'&!-'$O(("(O'$*'K
%!/"'9E d -7' /'#;/-26"!'#!O/%-!-%;('#"'2!'-*#
(-%;('2"&!-' ,!-(O-%'%'*' ."'#;2*!.'-"&"'(O/%-!-%;('
&"('2!'-'-%;(' ;/-26"!'#"('O-/%('2"&!-' ,!-'O;'
2*!.'-"' -/-26"'#"'('O-/%"'2"'&!-' ,!-':O+-/O-"'
O-#"'#"'&O'2'-%-,!"' ,!-'&O .-#"'(O-/%('#"'#;+O/@
,!"'4&!%"!'(*/%'4*!'#"'$O!'-%"/%('#"' O!/*8
;%O-%'/'7'O/#'#"'!"'26"!'#"'(O-/%"(' /'2"' ("(!"&
."/%'#"'!(-,!"'(

'# $ ' ! *
6#H #'#'D#;@/-@;' ;"E' " ' -;'
$O-%'#;/-;'H"'7-,!"'+'/%'N "$!(;' *((;#O/%'!/"
O++*!'(' ,!-'+"'$!%#;/&;"' ' ' 'R
V 'D#"@/-;9 '/"'("&-"9O%'O-("O!:'&4'"&'
'+O-/"'#!O7"/%"' ,!-#!O;"'#!("@'4*(%"('4*!'#"'4*'%
%O'#("<"'S!(,!!'%O$-/"'#"&O ;4!;&-,!"'#"'#"/-
$!%' $-:!'O!'4*-#('#"B' O&-.'"5 2"' ,!-"'4';("'&"'
"/'4*-#('Y7' BM' "%'"/'.O&"!'"'$'B2'"."#
4*!'%"'"/%'#"'2"&!-',!-#"'.O&%';%'#"&O'"#"'+K
4%-*/' #!'+*/#"' ' '4' O((-*/'#"'
'4' d /2-"//"'+*/O-"'$'O/DO-('#!O'7"/%'
;%O-%'&O'#"'!:@2"/%@,!O'O/%-,+"' 40 %"
#!!/"'&-."'#!O'7"/%')'N '8'O.O-&
O!((-'#"('#"/-"'('#!*' "4O('#"/-/'' !/"'26"("'
4*!%'#"/-"'#!*' ' "(%-+"'%;(@6O!%'N *'%"#"
%'!/O-"'#"'2!-.'"' O8O/%'2*!'('4*!'#!*'&O'#"!<-;+"'
4O'%-"'#!!/'(*!'#"/-"'%"!*!((-'#"/-"'%"'!+*-('#"/-"'
#"'4-<'!'#"'2*!'(' -/%'4-(%"&"'O44*'%"'#"/%'40"'
O//;"' #-:@!-%'&-/-'(*-'"' ;2*'*/"%@"!'7-/-@
#"!'-"' &-."("!-'"'$O!'-(' 6!-%'#"('O'O/('#"'!'"
&"'4&O2"!'!O!%'"/-"'#"'!<"' 3&/ 'M' N "
#"/-"'' #"'4!-('&*/%'"'+4(' #;+*-('"(%' #"."/!"'!'
!6"'(-+4&"'+*/O-'"#"'2*+"'4"/#"'%' "/#"'2*+4%"'

é&-.'"(' (*!("% #"/-"'(' '"/#'" !/' 2*+4%" 0."2 &Ơ
#"'/-"'" ":02%-%!#"' ₦ "% 2*++" !/' #"/-"''%'$-(@
4'*4'"' (0/(#*!%" [' 20!(" #!!/' #"/-"" 'M2"++"/%
$'044-' ,!-' "(% /'"% "% ;'-&&0/%5 20'' 0!%'"+"/%'
&Ơ2-'2!&O%-*/'%"'/-%;-"/'-%"&"(+*//0-"(#"2!-.'"'
&0-'" 2*++" !/' ;0((-/' /"%%" 2*++" !/' #"/-"'
(' - ' # 'O' 1"(% &Ơ 40'$0-%" "-*4M"' /' .'0-
%-(07" #" 4*!4M"9 !' '"("' */' /" 4"!% &" /-"'' &&"
/0% /"%%" 2*++" !/' #"/-"'' 3 /'
Y -7' /' #-;-%" !" #*/% ' $0!%" :-7"'9!(, !!0!' #"'K
/-"'#"/-"'' > , ' 2602!/' '"4*!(("
(0//" ,!-' /!Ơ 40(' !/' #"/-"'' #
< , ' &!(' #!!/' 40!.'" .-"/% -+4&*'"' " #"/-"
,!" 9" 4!-(' '$-40/#"' -/' , '"'0/%' ₦ * %-,!"@
+"/%' &" $!/-;'" #"/-"' &Ơ 4"%-%" 4-$"2" #Ơ +*/@
/0-" ,!"' (!-'0/% &Ơ +8%6*&*7-"' -& $0&&0-% #*//"'
&0'*/4*!" 40(("' &" $&"!."#"("/&"(' /"&0'+" '
&&"(% -[' 2" $!/e;'" #"/-"'' "%'-;!% ,!! ' &Ơ +*'%
;!% +*'%0& #*-% 408"'') ' N "
&"/-"#"&Ơ ."!." 10!+ /" $0-%" 40" &" 40!.'"'
&*- -#!M%'0/7"(4'M("/%(52!"(%&"#"/-"'#*&Ơ ."!."'
B .'R ' "%%" &*2!%-*/"(%$*/# " 7 %>/
,*'OO' G "%Ơ ' % 2*++" S#(!(' "70'#0-%' -& .-%
#"(' '-26"(,!-' +"%%0-"/% &"!'(#*/(' 0!' %'*/25 -& .-%
0!((-' !/" 40!.'" ."!."' ,!-' 8' +"%&0-% #"!:' 4"%-&"(
4-"2"(#" +*//0-"'₦ "/-"'"#"&Ơ ."!."'(" #-% 0!((-'
#!!/" 26#%-." (*++" ,!-' $0-% %*!%" &Ơ '"((*!'2"
#!!/" 4"'(*//"' Ơ 1 70'# #!' 2*/%'#&"!" 7$"/#'0&'
,!" -"!' 0;(*&." -& +" $0-% 0!((-' 4"'#'" ' +*-'
"/.-'*/'2-/,' ' (-:'2"/%(&-.'"(' "% 2!"(% #" #"/-"'#"
&Ơ ."!."' G[' &"$%' #' 3 '0(*2%' AA '
'Y' "/-"'$*'%' *!'$*'% #"/-"'' 2" ,!!-& $0!% 09*!@
%"' ' &Ơ $'02%-*/' ,!-' ":2 #" !/" (*++" 4*!" 0.*-"
&Ơ .0&"!" #" &Ơ 4&!(' 4"%-%" +*//0-" 0!&#"((!(' #" &Ơ
$'02%-*/' "$*'% #"/-"'#" %'*-($'0/2(' ,!0%'" 2"/%-K
+"(' "(% !/' 2"/%-+" U2" ,!-$0-% #"/(' *!J' "$*'% #"/-
/-"'"(%4*!" &" +0'260/#' ₦ d "/-"'#" % -"''"
%'-;!% ,!-' (" 4080-%' ' *+" &"9*!'#" &Ơ $"%" #" %
-"''" 0!:' -"/(' "%' 0!9*!'#!6!-' 0'7"/% '"2!"-&&-
40'+-' &"(20%6*&-,!"(4*!" (!;."/-" 0!:' ;"(*%/(' #!'
404"' *+' #!!/ 0/2-"/'#'*-% ,!" 1 /7&"%"''4080-%
0!' 404" "% ,!-' $!% %0;&' "/' A ' 40" &" '*-' /0
Rơ "/-"'' -"!' 2*/%'-;!%-*/, !-' #0/(' 1*'-7-/"
(" 4080/%(!"%*!(&"(' +0'26 ("% "/707"+"/%(' #"@
.0-% %'"+4&*8 " ,!"&, !" 02%" #"' 4- % ₦ !9*!'@
#!;!-'0''6"(4*!" !/" &*20%-*/' 4*!" 0/' +0'26
4"!:' 2"/%(' $'0/2(!/' 70', */' (0/(&" #"/-"'
?"!' (0;*%(' ;&*!(" "%2604"0!' 4*!" &Ơ 4"'+- '"
0// "'4' ' ')AB' " 4'*4'- %0-'" #!' &-"!'
80/% "!' &" #"/-"' ' -"!' '"%!&Ơ U -#*/J% *+@
4"'' "% /" &!-' ."/#'" Q!!0!%0/%#" &-"!' ,!'" 4"!% 2*+@
4'"/#'" Ơ4"0!' #!!/' ;*"!$'%0/% 7'0/#$ %@-& V
' -'7' /' ' ' "/-"'(#!/%' "'0'7"/% #"// '
"/'(!(#!!/' +0'26 ' "% ,!-' &Ơ #- "/2" #"('0'K
'6"("%#!' #"/-"'' ' -"!' '"(%'"+-(' 04(' (&Ơ2*/."/K
%-*/' ' Mơ /" (*++" #!0-7"/% -/# %"'+-/ "' ' $-%
!*"7'0/#"&". "@#" #"/-"'((!"&("4"*4&%(' 9
J ' &-.'' ' #0/(& /!"(% ,!" #! %" &-;'"'
"%" /'#"/-"'(2*+4%0/%(' $-* - ' V" '--'Q!0%'"
!'#/' +-&&" 2!("(% !/' #"/-"'2/(-# '0;&" "% ,!-
.0!% ?"/' &Ơ 4"-/" ,!!/' 6*++" +0/,!" '(Ơ 40K
'*&"' ? '0 , '/-'' " 4*!.*-" #" $0-'"9!(%-2"
026"%' ' #"/-"'(2*+4%0/%(' & ' 9' !' ' 9
" ' ' /'%"'+"(#"9!'-(4'!#"/2" "/-"'(#"%0!:'
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A ' ' - ' 'M'N& !' " , ' "%%'"(' #!!/' 2*+@
+"'2O/%' #!!/' ;O/,!-"' ' ("(2*'"(4*/#O/%('
I' #4#2;"%##&#7'O46-,!"'*!' (-+4&"+"/%' ##@
4#262' %*!%"2*++!/-2O%-/'4!;&-,!"*!'4'-.#"/@
.*8#" 4O" &" %#-#7'O46"' "2".*-" !/" #H#26"'
O/#""4O"!/" ##4#26"
' 'O I' (' 1"&&"" "(%*-% 4&!(.-"-&&"#!!/'%-"'('
S" &O 4'"/#'*-(4&!(' .*&*/%-"'(' O" &O #"4"(26"" "/'
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#"!'($O-(O/%(' !%-" #"4"(26" O!' '*8 #" 2"(' 26*("('
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,!" 1O4';(' #-(/"" $!% 4O((#" O'9*!"'O!' "/%"%O'&O
#"4"(26"' "6 ' */$'&-' "' ' 4#' #""' "9"2%' ,!"
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&" 2*+4O7/*/'
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+"/%' 6#%"' 1":#2!%-*/' #!!/' 26*("' H#"6"<2"
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+O/#"'&"%*-(-#+"' 9'9'O*!((' V '--'NN #4#26""
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!/' 6*++"":4##-%-$,!-'O-+"O ##4#26"' ("(+O&O@
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#"" ,!"&,!!/' "/' &"" %!O/%' "/#O/% ,!1-& 2'-O-% O!'
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+*"%5 '-"/' /" 4"/% +!"+4#"6"" '> -& 9" &" %'*! ."@
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+-&&"6"+%' (4*!'"' (O!."' ""' *'+*(O/%"' ' //2'
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&O, !O-(' #*/% 9"' .*!(' O-' 4O'&#"' ,!" +*/' $-&(' ##4#26""
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Y)M' "$!%O."2 '-+O&##' ,/"9"%'O&%O-'/' e 4O@
7/"' "% ,!"9&8'%"'!.O-' &""(!& +-/-(%"O."2 ,!-' &"
'*' ##4#26O-%' ! ' MM' -' +*;'$'#'" ##O-%
+*'%'$ #*!%< .*!(,!" (*/' '*-' *!" +1O44'"/#'"
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S' Y' d "##4#26"'' / ' ' 6##"' ' #4#2;"<@
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' :---I' (' O" +O-/%"($*-(' -(,!-'4'""(26"'
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O2"%O-/##"%*/'4*!%"+"/%'1"-.' ' "$!/'("!&
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&O ;O-;O8%"' 8&O%O/&" ;O(' ,!-%"' #!'*!/' "'
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#"" ,!"' &"$$O-'"(' #"(4"(26#' "(*+"(' #"(2"'
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U/2+ʿ#1!/ʿ9*!'/O&Ź ,!"&,!"(&"%%'"(#O/(ʿ&"(,!"&&"(ʿ
/ʿ &"!'" #"+O/#O-% !/ʿ ##(O;//"+"/% #" $O.*!ʿʿ
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4ʿA
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1O;*//"+"/%ʿ *!(+'" ##(O;*//"'#< ##(&'" +*-(
4'*26O-/ʿ N£ '" ##(O;*//"'ʿ /ʿ ʿ "(("'" #"' (1O@
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@ ʿO Ɩ(ʿ ʿ1O;*'#O7"ʿ&'" e!ʿ(1"(%O/% +-(ʿ
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ʿ"*2"ʿS'".*&(ʿ9'"(O-(ʿ9'"2*-(ʿ9'"(!-(##(O;!(#"ʿ
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6*++"(ʿ($-.ʿMA ʿ '" (!4"';'"2'*-%(1#&"."'O!@#"(@
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#.4ʿ 2'" &!-ʿ(" +;ʿ O!@#"((!(#"&ʿ'"&-7-*/ʿ ,!1-&
Ơ (-&*/H+4(ʿ'#.#'#"5 ʿ("' +"%O!'O/7#"(ʿ7"/(
##(O;!Hʿ ʿ //'" ʿ2 ʿ %#'"(*!.O-/ʿ2*!'@
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+*4ʿO-+O;&'" "'"'"!'9'"$!(##(O;!(#"ʿ-^ʿ #'#6ʿ/
ʿ *:O/'" +#4'-(#'" -"/%#%#" (*/ʿ"'"!"("Ơ##(OK
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#"2'" (%&&'"ʿ/$-/ʿ&Ơ *!"##(O;!(#'" ##O-7/Ơ#"2"(
."'(ʿ1":%'O.O7O/2'" O-(#"ʿ -(%-/7!O&'" /O-$#!ʿ4&O%
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-# ʿ "##(O;!("+"/%ʿ(-ʿ1*/ʿ4"!%4O'&'"O-4(-ʿ
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6# O)68#?ʿD##@<O@;!@<#Eʿ"ʿ ʿ Ɩ O-'"ʿ,!!*/ʿ
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4*!'"%'" ##(O;!("'ʿ ʿ =ʿ ʿ Q!*-ʿ 4*!"
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,!,ʿ&'" +*/#'" /*!(##(O;!(#"+*/#"5 ("(O44O(
/%O(("<#1-&&!(-/ʿ("($O.*!ʿ(O(("<#1-/2*/(%O/2"ʿ
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"("'"!#"'" *:O/'"O-@9'"#"4"'ʿ=%4"'#'"+*/ʿ
O+O/%4*!"&Ơ##(O;!("'Ʒ '# 6ʿ-ʿ ʿ&ʿ+'"("+K
;&'"##9ʿ,!'"2"(+!ʿ(ʿ ,!'"2"(.*$-%"(*/%4'"/#'"
&Ơ 4O'*&"ʿ"%ʿ4'#%(ʿ+1O22!("'ʿ %%"/#"/#'"
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4*!"##(O;!("'ʿ %*!%2'" ,!'"&'" +*/#"/ʿ2*-% +"'@
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2*/$!("' 1"/$!-% "%$O-%4&O2"O!ʿ+#4'-(ʿ
C ʿ ʿ4ʿ B)ʿ#O/(4** +-(ʿ'Hʿ ' ##(O;!("'ʿ
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.O/-%#(#!ʿ+*/#"' !'%*!%ʿ+*'%"&(##(O;!("<@.*!(H
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4!&O2"4O'#"$O!:ʿ'O-(*//"+"/%(ʿ4O"#"(ʿ$O-%(ʿ2*/@
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&Ơ%'*+4"/%"/(ʿ6--ʿ."/#O/%#" +O!.O-("(ʿ#'*7!"
4*!'#"(ʿ'"+##"("(ʿ"$$-2O2"(ʿ5ʿ*/ʿ#'%##%'*+4#,!O/#
/ʿ.-%(*!'"(ʿ#'*7!"(ʿ/$*#'"/ʿ4*'%ʿ+O-(ʿ*/ʿ
/1"(%4O(ʿ##(O;!("#(-ʿ1*ʿ/1O4O(ʿ4"!'#*/'"!%#%ʿ
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#O/(&"'ʿ! ʿ #1*!!/-
bʿ"#8O77#.&#?ʿD##@<O@ (#@4%#Eʿ.O "$!("'2'"
,!!*/ʿO.O-%O22"4%#
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#"(O22"4%'"/'" '"$!("'16*//"!"#'" "(%"$"(%"ʿ
O ʿ%ʿ'Oʿ H'M
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ʿO Ɩ(ʿ Ơ4'"+-"'"40'%-2!&O'-%# 7-(%"/ʿ
-Ơ(-%!O%-*/ʿ*/ʿ1*/ʿ.*-#!/'"26*("' ,!-ʿ#"(O22*+@
+*#'" +"'."-&&"'"'"/"/%&Ơ.-&&"'"%1O!%'" ,!-ʿ O2@
2*++*#'" ʿMB
ʿ$- ?ʿ! ʿ4'#$-:"ʿ"% *
%ʿ ? ʿD##@<O@[4/@4O17/#Eʿ Pʿ Pʿ
"(("'D O2"*+4O7/"'" ʿ(1"/ʿO&-Ơ ##(O22"+H7/#
ʿO Ɩaʿ 8 .*8O/%"(ʿ /ʿ +O7-*-"/ʿ ,!-ʿ
/'" O.*-%9O+O-(.*!&Q#"(O22*O4O7/"'"4*!ʿ4'*K
$-% ,!!-&%-'*-%ʿ#!ʿ .&.O/%#1"&&"'"#'" (*4ʿO'%ʿ $-
OOʿY
ʿ$- ?ʿ ʿ4'#$-:"ʿ"% "
$- %& ʿ D##@<O@[*'5 &'" # /'" ("&-'" 4O(ʿ!/
##@<O@[*'" O22-#"/%"&5 O!ʿ4&!'-"&ʿ 1(/'" ("&-'" 4O(%
#"(ʿ##@<O@[*'"O22-#"/%"&(5 +O-(ʿ,!'%,!"(@!/(&-"/%
D&"(ʿ##@<O@[*@< O22-#"/%"&(Eʿ ʿ ʿNS Ɩ -(("/%-@
+"/%ʿ##(!/-*/ʿ '" ##(O22*'# "(%#O/(2'" +#/O7"'
Ɩ O" ":%"/(-2/ʿ#%O%#"/ʿ/ʿ/1Ơ 4&!(1O22*'#ʿ
'" ##(O22*'# S'"#"!:ʿ /(%'!+"/%(
ʿ & ʿ[-Ɩ(ʿ "% O/2-"/ʿ9*!"!'#'" &8'"ʿ,!'"
O!(O/-O("'"2-%"O.*-"O22**(%!+# ʿ2*/%"O-/#"("(
#-(2-4&"(#1O&&"'" -"!"+O!.O-(ʿ(*//"'"!'ʿ,!-ʿ&*7"*-%
.-(@ @.-("#'";-8ʿ ʿ-&(O44'-/(("/ʿ 6O-"'"(#"(O2@
2*'#("'"%$O!%("ʿ+"(!'"(ʿ ʿ9ʿ Yʿ ʿ "2-"& /1Ơ
4*-/%"/ʿ!'!/ʿ(-4*-(%#"(O22*'##!'"/ʿ'"/#'"9!(%-2"
#'" &Ơ 2O!("%"/ʿ!22#(Ź G) "2"&!8 #" "(O" "%#"
+4"-!(ʿ/8 /'"."'"'Ơ4!"!!O#."/"-/ʿ-ʿ.ʿ M%
ʿ$- ?ʿ! ʿ4'#$-:"ʿ"% **
H ʿ Ɩ ʿ D##@<O@[*'@##ʿ ##"Eʿ "
4*((#ʿ ʿ Ɩ #(!/-ʿ "("+!"(##(O22*'##(ʿ *!%
"(%##(O22*'##ʿ 4&!(#!"/("+;%"ʿ 4&!(#!!/-%#ʿ4&!(
#'" ;"O!#ʿ ʿ< ʿ ʿ 1 ʿ ʿ 1 ʿ
Ɩ O"":%"/(-*/ʿ/-Ơ4"'#!ʿ %2*"#ʿ /ʿ4-O/ʿ
##(O22*'##ʿNN "'+#'" #'" 4"-/%!"'"' *!&"'"(##(O2@
**'#"(ʿ2*!&"'!'"ʿ,!-ʿ/'"(*/% 4O(2*/ʿ2*/%"'"+ʿ/
/!O/2#"(
ʿ D##@<O@[*'@##Eʿ /ʿ O'9N %Ɩ '*@
#!-'"&'" ##(O22*'#'ʿ &Ơ##(!/-*/ʿ ! ʿ2O&*+/-"("*/
##(O22*'## 2"(ʿ$O+-&-"("(ʿ N$ Ɩ "'" #'" +!(-,!'"
O-'"'" ,!'"&"("2*#"/ʿ#1!/ʿ-("'!"+ʿ//"("ʿ*2"/2&(
#1O22*'#ʿ &Oʿ 26O&"'!ʿ Ơ ##(O22*'## 2'" 4-O/*ʿ */ʿ
'"-&&'"U!Oʿ +!(-2-"/ʿ,!ʿ-(("/#'"/ʿ,!!!O4"&#"(*/
#-(2*'#"%O/%##+*%"/#"(O22*'#"ʿ / ʿ ʿ
,7ʿ NN Oʿ ":%"/(-*/ʿ+"%%#"ʿ, ##(O22*'#
#O/(ʿ#"(2*'&"'"!ʿ#O/(ʿ/"%O;"'O!ʿ "%%"#"O4"'"&Ơ
'*!7"'"O/%%"%ʿ.*(ʿ 1O.1O/%&"'"26O+O'ʿ%&O'(O/(%"O/'"%%"'
##(O2**'#O-%(&"(ʿ"/%&"'"O!ʿ ʿ O&*/ʿ AR
C>,/ ʿ%ʿ:---ʿ4 ʿ#O/(ʿNNYF '"##(O2@
2*'#"'"Pʿ "("'"'#1#%"'#1O22*'#ʿ "&&"'O4"'"
(1"(% ##(O22*'##"
ʿ:8-Ɩ ʿ &$O!%"%"/"+"/%4'"/#'"'"(Ơ("/K
%"/2'" ,!!"&&'" /'" #"(O 2*'#"4*-/%1O."2 6'-(%ʿ
-%%ʿ$ ʿM ʿ *'(&Ơ2-%#ʿ/'"#ʿ(ʿ/'"+-/(
,!'"(-ʿ(*/ʿ60ʿ+*/-"'"O(%"(%#(O22,'#"'""%2*/K
$!("ʿ%*+;O'"/ʿ#-("'/(-*/ʿ(2-.-&"(ʿ $ ʿ& ʿ
4'H@(-ʿ/*!(.*!&*/(2*/(-#'"'"'"*++"'&"(ʿ(!9"%("
"/%'1"!:ʿ"(%*8"/%;-"'/ʿO22*'#O!(ʿ,!"'$"'*/a@/*!(
(-!*/ʿ/*!("("+"'."-&&"'#'",!*8ʿ-&(ʿ("(/%#"4!-(
%O/%#"(O22*'#"<3 ʿEJ
ʿ$- ?ʿ! ʿ4'#$-:"ʿ"%
"#8O77,6. Sʿ ʿD##@<O@[*!@-##ʿ4&#"Eʿ "
" ʿ "(#'O4(##(O22*!4&#(

$? ʿD##IXO@[*!@4 "@+O/Eʿ
ʿ ʿ "'+'"#16-(%*-'" /O%!'"&&"ʿ "((O%-*/ʿ#'" 1O2@
2*!4&"+"/%#"(O/-+O!:
ʿ$- ?ʿ! * ,"
ʿD##@<O@[*!@4-#Eʿ/ʿ ʿNN Ɩ #4O@
'"'"#"(26*("(Ơ D4--ʿ#%O-"/%4O"2*!4&"ʿ 4O"4O-'"ʿ
#(O22*!4&"'"#"(#'O4('NN #(O22*!4&"'"#"(26-"/(ʿ
&"!'"#%"'&Ơ2*!4&"ʿNN d "##(O22*!4&#(
1O22Q!4 "+"/%ʿ "(26-"/((" (*/%##(O22*!4&#(
ʿ$- ?ʿ! ʿ4'#$-:"ʿ"% * ,"
4 "# 77,,&?#?ʿD##@<O@[*!@%'#Eʿ / ʿ M%"'ʿ
&1O22*!%'"+"/%NN "##(O22O!%'"'ʿ.ʿ ʿ '"##;O'@
'O(("'#1!/ʿO22*!%'"+"/%
ʿO Ɩ(ʿ ʿ('" #"(O2*!(%'Ơ "% ("' 2*!26Oʿ
O ʿ%ʿ.ʿ ʿ B
ʿ$- ?ʿ! ʿ4'#$-:"ʿ"% **
-'' ʿD##@<O@[*!@%!@+O/@(1Eʿ ʿ
"'&"#1!/'" 2*!%!+"'ʿ#1!/'"6O;-%!#'"ʿ *'(,!"&"(
/'"'$(ʿ*4%-,ʿ'4O"!/'"&"/7!"##(O22*!%!+O/2"#@
(*!$-'-"'&Ơ&!+-#'"'"+#+"'"'#$-#26-"ʿ(*/%":4*(#(
%*!%'2*!4ʿ'!/'"7'O/#"&!+-#'"'" ʿ---ʿY
ʿ:---Ɩ(ʿ !'"&"(&*-(*-"/%O;O!"("/'"(ʿ4O"
#"(O2*(%!+O/2"ʿ=/ʿ 6, ʿMʿ "$O+"(/'"Ʋ/"&"(Ʒ
/*+"/%'"/ʿ 'O/2"ʿ '"/1"(%$*ʿ#"(O"*!(%!+O/2"ʿ
#!ʿ&O%-/Ʒ (1O;O(%O#-#-% -/2*/%-/"/%O!:/'"(O;!#
4O"#"(O2*!(%!+O/2"9!O8 4"'#!%#"+O!.O-(-(7O2(ʿ
ʿ;WEʿ 1Ơ"(%4&!(ʿ4O"#"(O2*!(%!+O/2"ʿ ,!'"4O"
&*8"'":4'"(("'ʿ ʿ#ʿ ʿ-ʿ
ʿ8 # ʿ ! * ,,
? ʿ ʿD##@<O@[*!@%!@'*#ʿ +#"E
" ʿ" ʿQ!-ʿ/1O4&!(2*!(%!+"ʿ16O;-%!#"ʿ"(
(O.O/%(#*-."'%(O!%!%!(-%-!$O%-*/ʿ(1-/#!($'"'"' ʿ2"((''"K
-"(#16*//"!'!(ʿ'"/#!ʿ &"!'(ʿ4O'"&(,!-1-&&(ʿ"/ʿ(*/
O!9*!'#16!-ʿ4&!(ʿ#O/(##(O22*!%!+"'ʿ ʿ# 1 ʿ
"/-*'"/*!(%O&&#7!"'"#"(ʿ-/2&-/O%-*/(*-*(O22*!%!+O/2"
%!+#"'"#"%%*!%6 ʿ ʿ #
)# -7,6&> [ʿD##@<O@[*!@%!@+#Eʿ.ʿ ʿ
ʿ-Ɩ O-'"4"'"#'" !/'"2*!%!+"'"6O;-%!#"ʿ 1*-@
(-."%# 1O.O-%##(O22*!%!+# #"$O-'"O!2*'(ʿ"$$*'%ʿ
/ʿ.O-/ʿ#"(/ʿ%O-/ʿ*'#-/O-'"ʿ /ʿ&"U/O% 'Ʒ ."!%
##(O22*!%!+"'"Q!"ʿ,!"26*("/-/(4!-(&/"&"(2*!(%ʿ
ʿ/ʿ (O!'O-%ʿ#$*'"ʿ"'" ʿ! 1*;S'!ʿB
Ơ +*'%-$-2O%-*/ʿ &!-ʿ'"/#&Ơ+*'%$O++#"ʿ&Ơ##%O@
26"+"O%#"(4&O-(-(ʿ&"'"##(O22*O%!+"#"!'2*'4(5 -%
/1O 4*-/%#"ʿ (1"/ʿ(#4O'%"'"ʿ C ʿ ʿ
ʿ Nƚ d "##(O22*!%!+"'ʿ/ʿ ʿ "#"
16O;-%!#"'" %$O!%(1O.O-'"#(*-."/%("+"'"(*!(%
2*'(/'"(*-(6ʿ"(("'ʿ!,ʿ#*-%#"ʿ%!+"'"*%+#"#"
2'"!"!'"(ʿ ʿ.ʿ!"'".*!(ʿ&"!!"'"/-ʿ/1'-/%"'#"/#'"
2'"-'"/-"#"'"4'"(("O!-+"'"/1"(%-(%"&"(O#"'#"ʿ
ʿ=ʿ ʿ ʿ ʿ
ʿ 9O!.ʿ A ʿ1-/2'##!&" ,!ʿ Ơ ("@
2*!#&"'"9*!'!Ɩ#'" &Ơ%'ʿ ("' ##(O22*!%!+"'"'"%!2*%#
#!9*!%!"'" 1;#-(O62"'ʿ ʿ ʿ ʿ ! "
++"' &Ơ '(/%"/ʿ(1O22*!%!+"'"'"+"'"'%*!%"/ʿ(
##(O22*!%!+"'" 2'"+"/%#ʿO ʿ#ʿ9
ʿ;(*&!+"/%'" 2*++"/%#ʿ2'"/ʿ(1"(%*!(
%!+#' ʿ ʿ SO46"%ʿ 1*/ʿ##(O22*!%!+"'ʿ 7 !ʿ
ʿ!ʿ" ʿ-/ʿ
ʿO Ɩ(ʿSʿ /'"+'"4!-(%O-#-"'"&-ʿ "'"(,!-
/'"+"/%ʿ '"9'" /'"#"(2*!%!+ ʿ@O-/(+*/ʿ#"4O"%@
+"O%ʿ '" ("'.O-7"ʿ-&&O-/ʿ!%ʿ;*//-(-%#O%7"/%
ʿ#ʿ1ʿ -/ʿBBBʿNN:.-Ɩ(ʿ "&!-ʿ 4O"#"&-K
2O%'" 4O'#(#"(#O-7/%ʿ*!ʿ#"(O2"ʿ(%!+"'ʿ#1"@
4&*8"'"((("/%+O-/%"/O/%(*/4'"4"/#O/%2"4&*8"'"(2*!(
& 7ʿA
ʿ$- ?ʿ! ʿ4'#$-:"ʿ"% ** ,,
%ʿ ʿD##@<O@[!@+!@&#Eʿ 3ʿ ʿ ʿ
%'!-'"!/ʿO+O(ʿ!/'"O22!+!&O%-*/
ʿ$- ?ʿ! ʿ4'#$-:"ʿ"% **,
%ʿ ʿD##@<O@26O&&O/@#O@91E Pʿ ʿ
"'%"#"26O&&O/#(#%O%-#!/'";*!%-,!"ʿ##(O"6O&O/##"
.#8O- +OH6#ʿƚ ʿD##@<O@26%%&@OO@##ʿ##"Eʿ
" ʿ" ʿ*!%-,!"##(O26O&&O/##"
6# 7/O+OH6#?ʿD##@<O@;O&&O/@##Eʿ/ʿ ʿ &*-K
7/"'"&"(26O&&O/#(#!//+O'26O/#E#!/'";*!%-,!"5ʿ&!-ʿ
$O-'"4"'#'"("(4O%-*/,!'"(/NN "##(O26O&&O/##"'.'#ʿ
"'#'"("(26O&&O/#(#ʿ "+H@O(-/ʿ(1"(%##(O2;O&O/##
ʿ$- ?ʿ! ʿ4'#$-:"ʿ ʿ
%ʿ & ʿD##@cO@(-@#-@$-@[O@(-*/Eʿ ʿ
ʿ2%-*/ʿ#'" ##(O2-#-$-"'ʿ
%ʿ ʿ##@<O@(-@#-@$&@#Eʿ Pʿ ʿ "'+"
#'"26-+-"ʿ #%'!-'"1#%O% #1O2-#-%#N!/'"(!;(%O/2"
ʿ$- ?ʿ! ʿ4'#$-:"ʿ ʿ
$ʿ ʿD##@<O@(-#@'#ʿ Ơ(8&O;'" ʿ4'"!#
O22"/%7'O." ,!O/#&Ơ(8&O;'" ,!-ʿ(!-%"a% +!"%%"'"ʿ
9"##(O2-#'"ʿ":2"4%#O!ʿ$!%!"%O/ʿ2*/#!-%"'/'"&Ơ
9"##(O2-#"'"O-Eʿ Xʿ Oʿ O-'"4"'#"&Ơ("4'*-#ʿ(-2*/(!-%"
1O2-"'ʿ Ơ4O'"%#'"&Ơ&O+"'"!/ʿ,!-ʿ/'"#(ʿ &-(ʿ1-/$&!'"*"
#'" 168#'*7#/'"%"ʿ,!Ơ4"'#!(*/'"4O2<%"'"/O&#@
'"+"/%#"##(O2-#'"#ʿ #%*ʿ ʿ ʿ & ʿ
ʿ%ʿ!-ʿ4ʿMM
ʿ$- ?ʿ1 ʿ4'#$-:"ʿ"% *

%' $- ? =$-' L ' D#-@<O@$ @'$' '#"E' 6' Q!-
/1"(% 4*-/% O$$O-'#' , !-' "(% (O/(O$$O-'"(
'$- ?' ! ' 4'*$-&"' "%
%' $- ? ' D#H<O@$O@+ME ' 3' ' M%"" &O'
$O-+
' 'O f(Q!"' 9" /" 4!-(' +O' $O-+' #"(O$@
$O+"" Q!!" /' 1O#+-'O/% *!' .*8O/% (O4"-/%!'"'
B ' -!(%*(% #*/'" #"((*!(&O' +"' ' $"!' (1O;O-(("
Q!!*/' /*!(.*-" #"(O$$O+"' " /*!(O-+"' ' $9 '
4' MR%
'$- ?' A ' 4' $-:"' "%
%' $- ' D#H@<O@%"@[(-*/5 "/' 4*H(-"' #"
2-/ ,'(8&&O;"(E' ' ' *&*7-(+"' ' "'%" #" 1O$$"2%-*/'
O' #-(O$$"2%-*/' #"(2-%*8"/(
@'$- ?' A ' 4'"$-:"' "% *
% $- $-' f ' D#-@<O@$-@[(-*@/-' /-"E'
" ' " ' Q!-' /1O' 4&!(#1O$$"2%-*/' "(4"*4&"(
#"(O$$"2%-*//-(
\' ? ' D#-'@'<O'@'$-'@'[(-*'@'/"@
+O/E' (' +' -*&*7-(+"' /&-."+"/% #"' 1O$$"2%-*/5
'"/*/2"+"/% [' 1O$$"'*%-*/' "/' 4O'&O/% #!' '"$'*-#-(@
("+"/% #"' 1O+*!" #!' 4"!4&" 4*!' &" (*!."'O-/
'$- ?' ! *
%' $- ' D#-@<O@$-@[(-*@/-E' /' '
-*-*7-(+"' M%"' $O-'" 4"'#'" 1O$$"2%-*/' N "#-(O$@
$"2%-*//"' /' ' "'#'" 1O$$"2%-*/' , !!*/' O.O-%' "
4"!4&" ("#-(O$$"2%-*//"
'$- ?' ! *
%' $- ? ' D#-@<O@$&"!@'"@+O/E' '
f%O% #" 2" , !-' "(% #-(O$$&"!'-
'$- ?' 3 ' 4'-$&:"' "% ,
$' $- ' D#-@<O@$&"!@'-E' /' ' O-'"
'"((*'%-" 2"'%O-/"(4O'%-"(#1!/" (!'$O2" (!" &"(
O!%'"(
'$- ?' 3 ' 4'-$-:"' "% ,
e f' $- ' D#-@<O@$*!'@26-' 26-"E
" ' " ' /2'" #-(O$$*!'26-"
%' ? ' D#-@<O@$*!'@26"@+O/E
(' +' 2%-*/' #" #-(O$$*!'26"' " #-(O$$*!'26"+"/%
#" 1O/*'"
$- ' D#-@<O@$*!'@26-E' ' H ' '
"'+"#" +O'-/"' ' ."' 1O/2'"#1O$$*!'26" &O'"+"%@
%'" ';*'#' /' 2*++O/#O' #" #-(O$$*!'26"' N d 3' '
-(O$$*!'26"' 1O/2'"
'$- ?' 3 ' 4'-$-:"' "% , *
%' $- ' D#-@<O@&-O/@26-'E' *' -@
.*, !"' !/' O$$'O/26-(("+"/%
'$- ?' 3 ' 4'-$-:"' "% *
' $- ' D#-@<O@$'*/@%-E' /' ' O-'"
'-4-'O%-*/' #1!/' O$$'*/%' *!(/1O."<'-"/' ("/%-' #"(
2*!4(, !" 91O' '"7!(' % "1"(% +*-' ("/"+"/% , !!-&
$O!% , !!*/' #-(O$$'*/%" ' ' >
, ' '--' M
'$- ?' 3 ' 4'-$-:"' "% '@
$' ' ' D#-@<O@$'*/@%-E' /' ' "'+"
#" 2*/(%'!2%-*/' O-'"2"(("' !/' O$$'*/%"+"/%
'$- ?' 3 ' 4'-$-:"' "%
\' $- ' D#-@<O@$!@;&"E' P ' %"' 1O$@
$!;&"+"/%' !-((O%-%"-&#-(O$$!;&O' ' H '
/' ' ' " #-(O$$!;&"' ' /' ' " #-;O''O(("" #"
2" , !-' O/!;&"
' :-!!' (' ?-(' , !" #"(O$!;&-(' +" (*-"
2"(%'" 26O(!;&"#" (*-"' & ' ')MY ' N:.-!' (' "K
+*(%6"/"(' ("/%O/% , !" &" 4*-(*/' O.*-% #"(9[' 4'-("%
7O-7/-' (!" &!8' ("#"(O$$!;&O' '%' ' "7O'#O/% '26-O(
$"'+"+"/%O!' .-(O7" $&!-'#-% ' 9 &' ! ' Y
'$- ?' 3 ' 4'"$-:"' "% ,
% $- ? ' D#-@<O@9O/@("@+O/E' '
2%-*/' #" #-(O7"/2"'5 -%O% #" 2" , !-' "(% #-(O7"/2-
' 'O f(' "(O7"/2"+"/%' 9
'$- ?' ! *
\' $- ' D#-@<O@9O/@(-' " *' 4'"/# !/"
2-#-&&" O.O/%O' "% *' /*!(#-(O7"/ ,*/(E' /' ' "@"
%'!-'" 1O7"/2"+"/%' -(O7"/2"' !/" +O26-/"' N "
#-(O7"/2"'' *' ' "'#'" (*/' O7"/2"+"/%@ "%"
+O26-/" ("#-(O7"/2"
' ' :+!' (' +' ' "(4"'*//"' "%&-' '"/2' +"!@
."/%' /("%O!%'"(("#"(O9O/2"/%' " '
%'/' 4' ' ' ' U)YJ
$- ?' 3 ' 4'-$-:"' "% *
%' ' D#-@<O@7'OI$"E' /' ' ?O!.O-(
+*% 4*!" #-7'O$"'
H ' D#-@<O@7&]@O@;&E' 6' Q!-' #-K
4&O-%' -7!'"'O(4"2% #-(O7'-O;&"' "'(*//"' 6!+"!
#-(O7'-O;&"' ' +1"(% #-(O7'-O;&" #"&". *-' ' US" #"@
+O/#" .*%'" $- "J ' #"(2*/#-%-*/(, !-' 4"!%@a%'"
/" .*!(("'*/% 4O(#-(O7'-O;&"(' " ' S
" ' ' -' (' *!(.*!(+*, !"<5' &O' %'O/ , !-&@
%-' "/'O+*!" "(% !/' 2O&+" #-(O7'-O;&"' , ' # '
" ' ' "%%" 4O((-*/' .*!(' "+4&-'O' 1"(4"-% #"
+-%&" -#-"(' #" +-&&" .!"(' #" +#&" '-$&":-*/(#-(OK
7'-O;&"(' ' O ' ' 4' 3B ' -"!' O' ("(
'O-(*/(4*!' &O-(("' -2-@;O(&"(' +"(&"(' 4&!(9!(%'"(

#O/(!/' -%O% "/' , !"&, !" (*'%" .-*&"/% "% #-(O7'-O;&"'
-' &O' /O%!'"' ' ' 3 ' &' "(% -/9!(%"
#" 26"'26"' !/'" $-&-2-%-' "% #"(2*/(*&O%-*/(6!+O-@
/"(#O/(!/' (-9*!" (-' %'-(%" #-(O7'-O;&" O!:'
"/$O/%(#" -"!'-/' %;'U % "'/O'#J 6"'26O/% #O/(
("(#-(2*!'(' /*/' 4O(' ' (" '"/#'" O7'-O;&" O!' 4-@
26"!' ' +O-(' '"/#'" 4-26"!' #-(O7'-O;&" ' (*-@
+"+"' " ' O ' #' ' ' Q!-/%-!(' , !-' /1-%O-%
4O(#-(O7'-O;&" ' &O' +!&%-%-!#" ' O;*'#" &"(' %'-;!/('
' < / ' ' + ' A ' "(!/(U#" /*((*&@
#O%(J 2'".O-"/% #!-/#-7"(%-*/ ' &"(O!%'"(2*!&O-"/%
#"(9*!'($*'% #-(O7'-O;&"(' D":4"((-*/' , !"+"$*!'@
/-% ;-"/' ' 4'*4*(' &" (%&&" +*#"+"E' 4' ' '
= ' -' B
' O f(' -' 7'-"$ "% (-%'-(%'"9!7"+"/%"%
(-#"(O7'"O;&" O!' 4!"4&"' ' $d M ' /
"&&" #"#-2-*/'O' (%-' /-"/% +O-/(U/ !&&" +"/% +*-/((E
#"(O7'"O;&" , !" (-' &O' .-&&" "!((%-' 4'-/("+"4'"" $*2"'
' $' YY ' / ' O f(' 1"(% #"%*/(&"(O2%" ("@
-+*&"*/' 2"&!8' , !-' +" ("+;&"' &"'" 4&!((#"(O77'"O;&"
U;& +O;&"J' ' 9 '
'$- ?' 3 ' 4'-$-:"' ' 1 ' 4'*."/9'
1
6#8O-?#)+#%#H& D#-@<O@7'-@O@;&"@+O/E'
/' " !/" +O/-'"" #-(O7'-O;&" O(("" #-(O7'-O@
;&"+"/% (O ." ?"%%" , !&, !!/' #-(O7'-O;&"+"/%
"/ 9"!' ' ' ' #O/(
'$- ?' ! 1 ' "%&" (!$$-:"
' Je' D#-@<O@7'-@-' -"E' " ' "
#" #-(O7'-""
; ' 6#8O-?# ?' D#-@<O@7'-@-E' 9" #-(O7'-O-(/*!(
#-(O7'--*/(5 9" #-(O7'-"'O-5 9" #-(O7'-"'O-(5 , !"
9" #-(O7'-"' , !" /*!(#-(O7'--*/(' / ' ' "4O(
O7'-"'' -'2"&O'/" .*!(#-(O7'-" 4O(' "%"/"< &O 4&!(
4"%-%" 4O'*&"' , !-' 4!-((" #-(O7'-"' ' S-(!(@ 6'-(%'
' 3 ' ' ' O &" "-/O&6"!' #" #-(O7'-"' ' %* !%
&" +*/#"'
' O f(' O" +" +*/(%'<O &O' .*&"' (!-&/"
.*!(#"(O7'-"' ' 1 9' ' % /* ;O'*/' (!"%*"@
/"/% /1-$*/%&!(' ("+*'"-" *%*/4"#!' 1"/7-"/(
/1-' O' +O-(!"2*'.'-"' % #"' & 4*/% /1*!'" -& +-"/' ,!-
+*!&&%&*" #"(O7'-"' ' O& '-.' B' -"' ."H!-'
$O-% -&' -2" +" #"(O7'-"5 /2*-(-(%'O' -& $*'(*%"@
/-%(O7'-" +" (&-"' 1' ---' R) N:&.f (?*!&%$!#*&O/%
"/8 "% +*!&%&-#" #-(O7'-" Q! ' "%(, !"&-$!"%&@
&"+"/%#" ."-" 2 , *'B-) ' N:.-!(' "2*'4(O-/(-
"/26O((-'O44O'*-(*&O!%O."%&' "'&(O/(' "/K
"+O!.O-("*#"!' ' % (O/(#"(O7'"'"O!2!/" /"/%
.*!(#"(O7'-" !/"/%' 4*/% #"' 4'*$-%' , !" 2"(%!-&' '
$O-% (!' .*(%"' ;-"/' .*!("(%! 4O!' &O' 4" #"(O7'-O;&"
2"($!-@2-' .*!(#"(O7'-"' *' " ' #8' Y' (-' ,!"
4*((-;&"' O!2!/"(U#O+" (J , !-' "/' &-'*/(, !" #"(2*/%"(
#1"&&" ("+"("' / " (1" #"(O7'"""*/%"'
' ' 4 ' #O/(
'$- ?' 3 ' 4'-$-:"' "%
J' " #8O-?##?' D#-@<O@7'-I-E' 9" #-(O7'-O (/*!(
#-(O7'--*/(5 9" #-(O7'-"'O-5 9" #-(O7'-"'O-(5 , !"
9" #-(O7'-"' , !" /*!(#-(O7'--*/('P ' "+#+O
+O'-/"' /2-"/ (8/*/8+" #-'#-7'-"
'$- ?' 3 ' 4'-$-:"' "% #
%' 6#8O-?#T H' D#-@<O@7'-I7O@(-*/E' O'$'
" +" #-#O2%-, !" ' -4O'O%-*/' #" 4O"%-"(O7'-7-"(
, !-' (" '-#!-("/% "/' 7'O-/(*!' "/' 4*!(((--'"
'$- ?' #(' 4'-$-:"' "%O4'#4O%%%*/'
$' ' D#-@<O@7'-@9-9-"E 4O'$'"
"(4O'%-" #-(O7'-7-"(
$' ' D#-@<O@7'-@9O/9O/@%IE'
6' d "'+"#-#O2%-, !"Q!-#-(O7'-7"' NNF "'#"
#" +-#""9/"' Q!-#-(9*-/% #" 26*(" O7'-7-"(9N#
+4&*8"' &"(#-(7'-7"O/%(4*!' '-(!#'" &"(
$O!(("(+"+;'O/"(#" &O' #-46%6-/%"
%'"#8O-?#-#? D#-@<O@7'-@9-' ' 4'"/# !/'
#".O/% *'"% *5 #-(O7'-7"O/%' #-(O7'-7"*/(5 &O' (8&@
&O;" ' 4'"/# !/' O22"/% 7'O." , !O/# &O' (8&&O;"
, !-' (!-% "(% +!"%%"' 9" #-(O7'-7"' :"2"4%-' O!' $!%!'
"%O!2*/(O!' 2*/#-%-*/("' " '-.-O-E' !'O' "'+"
#-#O2%-, !" ' -(9*-/%"' 2" , !-' %O-O 7'-7-' %O!' "#-(O
7'-7"' ' % "#H(O7'-7-' "(2O.-%-(" U#O/(
#"(#-4#%(' #" /"%' 2"' , !"&O-((%O/2"
O-%' #"&O' 2*6-(-' '#"#O/(' %*!((("(4O'-(&"#"*/%"'(' O!(-
("#"((-'O;&"(' ("#-(O7'-7"@%@"&&" "/$'O7"+"/%*!4&!%
!' +-/(#"&2"#"/-'O/"#"9*!"O*/(!/' &"'(-(, !-' 4'-(
' ' '-' ' '
'$- ?' 3 ' 4'-$-:"' "%
6#8O-?# #H& D#-@<O@7'-@+O/E' (' +' N f 6*("
,4-' #-(O7'--" (' (!9"% #"2*/%-'O--%' & (1"(%O%%&'"
#-(O7'-+"/%(' S" 2'O-/(' !!-&' /1" (("' ;-"/" #-(O@
7'-+"/%(' ' = ' A ' ' '
A'O* % A M' "(4&O-($'(, !!-& O' $O&&!' O26"%"' ;-"/'
26"' "% #*/% -& /1O' 4' (, !"9O+O-(, !" #-(O7'-@
+"/% "% 1O+""%!+"' ' &/ ' ' ' ' O*)'
!' &-%#" &O+*'%' ("!"<@.*!(4'-("/%"' ' ' S-(!(@
6'-% ' ' $O%-7!"("% &"(#-(O7'-+"/%(9*!+O&-"'(

#"' .*%'"' +4&*-3-/' #O/(&" "-"%' #"" " ' N' N%!' -@
$O!% , !-/!-%O!:' O7'-+"/%(' ":%-'"!'(' "%"'%O26"
O!' .-(O7"' "(% !/' 7'O/# #-(O7'-+"/%' ?' #" O-/%@
!%6' , !"&6*+"+"' ;*/' -"!% "%' , !"&"#-(O7'-K
+"/%#" (O 468(-*/*+-"#*//" #" 7'O/#"(-#-"'(#"(
, !O&-%-(' , !!*/' /"2*//O-% 4O(' (. ')
' ' ?' ' *!6*!'(#O/(("(< +, ' #-% , !"
&" +*% "(% /*!."O!' "%2*++"/2" ' (!-%O;-'5 "% -&
(-7/O&(' 2*++"/2" !/" &*2!%-*/ &*/7"%"+4(' !-& !/' $!%!'
7'O/# #-(O7'-+"/% 4*!' +*-' !9*!'#6!-' &" +*%
"(% -%O/" #" ;O/#"&" "/' 4"' 4'-+" "/' 4'-/2-4"
"(%-"' ""!/' #"(O+"-+"+"' #-(O7'"+"/%' #"' !/' ("/(
' ' ' + ' ' ' @ '
' ' "!' #"' !"!!'O(' ' !'O:' "!O+"' (' '
'$- ?' A ' 4'-$-:"' "%
$' $- & ' D#-@<O@76-@'-'EPT'O ' -(O2@
2*!%!+""#" #"(#O/7"' (#"&O'7!"'"' /"4*4!&O%-*/
#-(O7!"'-"
' ' !J(' /%'" &"(O!%" +O!:"%-/2"'."K
/-"/(, !-%O#.-"//"-/"4O'-O;&" #"(O7!"'' -& $O!%
2*+4*("' , !" %!'O/7"'#"(4'-+"' , !"' "(4%-' ' !] 26O2!
' O * ' A / ' 4')A' #O/(' 8O'
#" 4'-/2"(, !-' 4*! "(% /-' #"&!" "(O% %O4O"&"/-%-2"(
(!"' #"(O77!"'-((" /"(*/%" , !!-&(4"!.O-"/%&"(
(!"' 1' 4' YB
'$- ?' 3 ' 4'-$-:"' "% ,
$' D#-@<-@7'-'E'D9 f ' 'M%"'&O-7'"!''
&"(, !O&-%-(O-7""(' /' #-(O-H-%'!/'&-, !-#(O."2 !/'
O&2O&-' d ' P ' "((""#1%'"O-7"" "(2"-"(("/%
"/2*'"O-7"" (5'"&&"(#-(O-7"*/%"/' +#-((/%
' ' O f ' ?" 4&O-(% O(6"" 4*!" #"(OH'-"
+O' 4"-/"' !:' 4&"!' (' O!:' 2'-< "% O!:' (*!(4'#!&O"O'
;'-#"" " ' $' ' / ' ' * ' ' , !"&' O-/ , !"
(*/' "(4-'" ' !' (O/% ;O-/"' !:' $!/% " +' 4-"' ' ! -+"&"
#" (O &O/7!" " +"&&" ' #"(O-7-%&&O (*+!' (*!(4-&'"' D;Q
'$- ?' #(' 4'-$-:"' "% $4"
' + D#-@<M@7!-@ "@%-' $' +*! @
&-"(5 ' 2*++"#O/(("6!-&"' "% (" #*!(, !-(#"&O!
(8&&O;" , !-' (!(' (""+"%%%<9" #-(O-7! &" %%%"E ' '
-$O-"' &"(O-7!-&&"%%%"(
'$- ?' A ' 4'-$-:"' "% ,
D' " #8O %O%& [' D#-@<-@+O/@%H ' " ' ' "'+"
#" 468(-, !" -%!-'" 1O-+O/%-*/ O!*/' N #-(O-+O/@
%"' X ' ' "'#'" (*/' O-+O/%-*/
'$- ?' 3 ' 4'-$-:"' "%
$" #8O %#? D#-@<-@+-E' ' ' "((" #1O-+"'
!' , !-@(' 'O/,O-(' /"#-"O-"/%@ (' 4O(#-(O-+"'
, !O/#' -&(/"&O+-"+"/%O!&'O2-"/% #-(O-+"/%"''
#1O4'-(&" "2O/%-*/ 204'-2" #!' +*+"/%
' ' /' .-.O/%O."%&! U % -+*/"'
%"!'#"(+-+-'"(J(9!O& 4O!'O/%&O#-+O/%4"'4O"%% @
9" 1O' O#*4%"'-#-*/(&!+-"'" #" 26O(%"%-"/%' (
$- ' ' B=3' ' ' ' ' ' ' B
' ?' " +%% " (% O/2-"/' ' % /*/' 2*++"&"
2' 8O-% ?"'2-"' !/' /-*&*7-(+"
' =' :+!(--(' " ."!% ;-"/' #"(!'"
9*-!(' , -"' Q!-!' 6*%" #"(' O/%%' (-9*&-
% , !-%O/$"%"' ' O.O/%(-(("%&"/'-.
4' Y)M' %*-(' 'NO f(' 1O'#"/%"//-#"'
+O$'*-#"' 4*(*/' /'O!%"O-+O/%8"'"(!-(#"(O-+-5
-/(9" +"!' .-.O/% (O/(("' 4-%%"'O-+"'
= ' ' ' ' #O/(
'$- ?' A ' 4'-$-:"' "% ' 4'*."/,' '

%' $- & ' D#-@<-@'-EP ' ' "'+"#"$O!2*//"%&
'-"' -'"&&"(*"!(' O-+"/% *!"4"/%"(#-(!/"#"
&"(/*!'""-%' ' b
' 'O f(' '"/#'" "% #"(O-+"'' *8("O!:'#"
4'*8"' ' ' %' /' 4' A)
'$- ?' 3 ' 4'-$-:"' "%
%' $- & ' D#-@<C E' (' + ' /"*++*#-%-' +OK
&O-(' "/' !(-%-
' fO f(' O" +-"!:'+" .O!&%&%*!' %!' !/' 2*4
+*'-' ' Q!"' &*/7!"+"/%"/% #"(O-+"'/&+O!'O/% 4&!(!'
"G ' ;a'
'$- ?' 3 ' 4'-$-:"' "%
6#8OS68 #' f ' D#-@<O@9!@(%-' (%-"E' ' "
-"2"(##(O9!(%-"(#O/(!/" +O26-/"' N "'+"#"
+O/-7" 6".O& #-(O9!(%-' 26".O& #*/%&"(;*//"(
O&&!'"((*/%#-'O/7"
% " # OS68&#%#H& D#-@<O@9!@(%"@+O/E' %@
%-*/ #" #-(O9!(%"' /"+O26-/"
'$- ?' ! 6,
S ' D#-@<O@9!@(%-E' / ' -'O/7"' 2"
, !-' -%O-%O 9!(%-' -(O9!(%"'' !/' 2O/*' -(O9!(%"' &O'
4O'!' " #"&, !!/ ' '"' &" (*-/" */' O!'O' #"
1-%' U!/' +O!.O-((*/*' $O-%-'$O-%-(' #"' 1O!'
%'" */' #-(O9!(%"' O' 4-'#"(' &.O!% +-' 1!:' %'+;' "
#O/(-/*'O&"/' #"' (*/' 4*!' &O' 4&O2" #" 4!&%!&-(
/" 26*(" , !" 4O'' 4-'"' &" +*/#" ' 4*!/%-&'&-&
4" &O' 9!(%"+"/%' (" #-/"' 9 ' <
%' 4' Y3' #O/(' N "#-(O9!(%"' ' /' '
%" #-(O9!(%"' O' +O26-/" #-(O9!(%"(#-(O9!(%-"
' 'O f(' "(O#9!(%"' ' 9
'$- ?' 3 ' 4'-$-:"' "% 6,
%' " # #H& D#-@<O@&-@7/"@+O E' ' +

"/0" #10'% +- %+'" -(*$#'" #0/(10&-H/"+"/%
#1!/"%'*!4" h
&&
f D##@<0@/@H#5 /*" #%'!-'" !/
0&-7/"+"/%' NN "'+" #10'% +-&-%0-'" 0%&("" !/ ##(@
0&-7/"+"/%
E $! 4'#$-:" "%
%' $- DLE D##@<0P&-@%#E *" G "(("
#1#%'"0&-%#
$- ? !G 4'#$&:" "%
\ O ? D##@<0@&$"@%"@'*0/E (
"((0%-*/ #" 10 0-"+"/%
S D##@<0@&#@%#E / 4&!(0&@
0-%"
$- ? ! 4'#$-:" ?
$ f D##@<0@&-@#9 P * 0-'" 2"(("
10&&-0/2" 1!/-*/ NN "##(0&&-"' / 6 *+4'"
!/"0&&-0%2"
: . ("(#"!< 0+0/%("(%0/% 40" &0
$0X" !"2"&"(%" +-'02!&"!("+"/%'0&&-#(-&($!'"/%
#"(0&&-#(40"&0&0!%" #" &0%*4 ;"&&"(4*!##" $9 -
4 B -/(-#"(*/ *(-"" &0$&"!"*/ #"(0&&-" *!"
"/$0-'"!/ ;*!,!"% &*4 Y
M $ 4'#$-:" "%
\ " $- % % D##H<#@%#H'0/ '0/@%1E
D H Q!- ##(0&%#'"0/% "%7'"(("' +0-(
##(0%%#'0/% "% (0-/ 9 9 (*2((V !-
f f f=D##@<0&@%#@'#' '#"E " #
/% &0 (-$ "(% 040-(#" 0/((*/ (0/7 -/6!+0-/
&"(26-"/(##(0&%#'#(& =- % ?*/(%"(
##(0&%#'#(#0/(S"(0/7#"(+*'%0&(.*/ &
$- $- D##@<0&@%#@'#' Y5 (8&&0;"%# 4'"/#
102""/%7'0'" ,!0/#&0(8 0;" ,!-(!-% "(% +!"%%"-
9" ##(0&%#'"5 ":2"4%# D":2"4%-*/ -/2*/(#,!"/%"E 0!
'!%!" "% 0! 2*/#-%-*//"&9" ##(0&%#'"0-5 9" ##(0&@
%#"'"0-(E !0 ! 40-("" "/40.&0/%#" &0(*-$ *!@
."'"#1"0! +10 ##(0-%#' NN ;H&!-/"/% 1"0! '*!@
7-" ##(0&%#'" +-"!- #!" 1"0!4!'" NN -7 0 '*(#"
##(0&%#'"&"(4&0/%"(*/(%0/2"#0/((*/(0/74*!'0
##(0&%#'" "%" ;'-#0/%"(*-$,!-/*!($0-%(*!4/>"'
S$ " * A'N 0" ":%"/(-*/$*!'@
/-"#,!"&,!!!/ (0@;*-((*/ *!" 10 *-"(0/(!"&#26"
!/0/(!"(040'*&" 0;-&&#'*-%!'#'2*-$- #'260!((#
70/%#' &-+"/%#'0(#'##(0&%#'#'4*'%#' //
F /-I D B "##(0%#'"'P HO%-(@
$0-'" (0(*-$;*-'"-&-/07/"0!("#H(0&%#'0-% 0/(&"
2 ! /%#1!/"*/#"4!'"" '$0;&
O f -Q!"$"0 -& (-*/&#4'"((" #"&0
(%%;%-&-%# (*46-(%-,!"#",!"&,!" (8&*7 (+" "%0+@
;*/$0-2% ;*-'"&";*-'"#"(0&%"'5 40" ,!*-&% "%0+@
;*/#"(0&%#'" 'S"/"42" 50'0$-" !/"
(*!&"7*!%%" "%$"!(4'-.# #" ;*-'" 47!"&" ;"(*-/7
+"(+"#"+*/"'40(5 9" +"%'*!80-(0*!&"%#" 0&@
%"#40"%0/%#" ; .0H ,!" +"/-+07-/0%-*/0.*-%
4'"*22!4#'-/&!" R
) $%! 4'#$&:" "%
$? D##@<0@+0@'#E / "'/-"#"%/0@
-/" #%026"'!/;#%-+"/%!/*;9"%,!-"(%0+0'#
$ #(n4'#$&:" "%
% ? D##@<0@+e@(#E P 0 "(("#10@
+0(("'5#-((-4"2" ,!!*/"0 (!0+0(("
O f("(0+0(("*!/-
? #(4'#$&:" "%
$ 6 8 >,H7#+#? D##I<0@+*/ "@&#^9" ##(0@
+*%%2"&&" 9" ##(0+*/""&0-(" 9" ##(0+*!2"&&"0-
3 #$0-'"!/"+*/2"0!
<-!!("#"(0+*/2"&" * -!
+(:((#0/(&
$ 9 4'#$&:" "% F *
,-8 ?70-# D##@<0@+*'@(0@1E (2%-*/#"
##(0+*'2"'
5 #8 D##@<0@+*'@(# "2'4'"/# !/"
2##-&&"#".0/%0"%*5 ##(0+*',0/%##(0+*'2*/(E
/ % ' 10+*'2"#1!/"0'+" '$"!'UN #(0+*'2"
!/"4*+4" #%" "0/ ,!-"(%#0/("%180!"%,!-4"G
+"%0!-#"#" ("$0-'" "%0!4-(%*/#"$*/2%-*/;"
M ? #(4'#$-:" "% *
$ f ? D##@<0@+*!'E ("((0%-*/ #"
-10+*!" '"$'*-#-(("+"/%
O f("(%"#"(0+*!%"% /*/260&" 2"
#10-+"' A G$0+*! *(*(#0-P
? ! 4'#$"'"%0+*!5 4'*."/2
"(407/ -%0&#((0+*'"
% $- ? D##@<0@+*!@0@26#E /
0-" 2"((" !/"0+*!'"%%"' 9 "#e(0+*!'02;"'
" "/*/2"" !/"0+*!'"%%"
:.-!("#"(0+*!'026"'" * ;+
V$- ? I 4'#$-:" "%*+*!'*2$2"' @ 1
$ $- D##@<0/@26#9 P "'+"#"+/@
(-,!" %0 10/2;"#1!/-/(%'!+"/% "/%
$ #(4'#$-:" "% *
"?\ D##@<0/@ '#E 9 I "'+"#"
+0'-/" "."10/2" $& 0I -7"%02%-$ '02;"

,!"&,!!/#1!/&-"/*#-&("4&0-%*#-&"(%#"4!-(&*/7@
%"+4(" "%"/!'40" ,!"&,!" 0%%'0-% (%@2" ,!!*/ /"
4*!'"0 40(&" ##(0/2'"'#" 2"%%" +0-(*/3 #(0/2'"
,/"&,%%"26*("'1#%" #"&1"(4'-% /"'!%;"0!2*!4 #"
4"-/" ##(0/2',"!/"*4-/-*/ (-$*'%"+"/% 0/2'#"
O f(%4!-((-("$-(%#"(0/2'"'5 '"(@
("/%&"(.*-&"((-(1"/".*/%"- * A #
2 $I)Y#0/(%+0-/%"/4/%-&/*!("#"(@
0/2'"'"/% "% /*!('"+"/"'"/%;-"/!/"7'0/% &-"!"
0'-"'".'"(0;-&*-/" U&" 0-'"S B NN:.I (
"/#"+0-/ -&("(#"(0/2'""'"/%"%("+-'"/% 26"@
+-/ -((-- B -"/%""/%"/"&"!"(.0-(("0!
,!-260'7#("(%*-"/%" "% #"(0/2'"'"/%#"!60.'" #"
&"!/&*/#"-/ / Y %N:/I("+0'-/-"" ,!-
4'"/#%"%(10''"(%" *!"&0$!"!"#" 1*'07"
%"+4"(%" "(0/2'"%0&*"(,!"&"(-&*&("(*/%0+-a ?
! BB 0/(#*!;&" 10+-'0&&"#" '8*6 10.*-%#"(@
0/2'##!'2$$-!"%#4 10+-%-##!'$"!" *8 W
Y ! 4'#$-:" "% *
% = ? f D##@<0@/-@+# +#"E "
" Q!-0 2"((##" -'" "(*%" ,!! 4'#("/%
#"!:2*'4(##(0/-+#("'+-/"*/%:4&* '#"%0/%
#"7"/(0'+#("--Y
$%9 4'#$-:" "%*+'/#
H ? D##@c0@*-@+#E "&1 +"
&0 .-" "##(0/-+"'P G "'#'"&1 +"&0 .-"
10/-+0%-*/
$ D##@<0@/ @;&9'E ! 0-'"4"@
#'"&0/*;&"(("
? #(0/*;&-'/1"(% 40(&-/ +*%;-"/$0-%>
$0!#' -%#S/*;&%' #(0/*;&-(-7/-$-"2"(("#10/*;&-'5
"%2 ++"10/*;&-(("+"/%/1"(% 40;!/"26*(" ,!-
("2*/%-/!" ##(0/*;&-" 4#2;"2*/%" 1":02%-%1#"
O f(0!."%#%1"(%4*-/% .-2" "% /"
#"(0/*;&-%4*-/% Y
$ 4'#$-:" F&&
)#8 .0)# ++# D##@<0@40@'#@&&# #"H -&
+*!-&&""(E"
6#80.0 #/2#? D##@<0@40@'#@&&# && +*!-&&#"(
"%+*/"##@<0@40@'#@8#E S&$! = % *"*!4&!@
(-"!"(26*("(#1!/"2"%0-/*+;'"#"2;*"("(40@
"-&&"(#*/%&0'#!/-*/$*+" !/" (*%"#10((*"%-@
+"/%*/"/#-$46-(*'#-/0-'"+"/%"%;"0!2*!4 +-"!:
##40"- "'N I"H "'+#"+0'-/" "0-'"&"2*/@
%0-'"#10440'"-&&"%&"?*%#*/#40" ,!"&,!"(&":-2*@
7'04;"(+ -(,!-/"("%*!."40(#0/(&"(#-2%- @
/0-"(+0#0" N Yi "##H40'"-&-" !
"((""#1"%"0440'"+#
0I(% (1-&$!(%#"(04"'2&&# ,!" -&/"
*!%/"26-.0&/"&"0//"(*%(2,N:.I(
2H!8 !7!#% 4?(*/8.'"(("("#"(0440'"-&&0"&
&0 2" ,!! 0.*-% +-(a!" -2"&&"4&08" ;*
" B%0/%("40"%-%&0#"+*8("&&" ,!-
4&!(/ "#-% +*% "%#&" 4-'"!- 0&&0$0"#"+*!'0 ,!-
2*++"/20 (*8#"(0440'"- ""4*!"(*8 2*!2;""0!
&-2% 0 * 4 R-
X (4'#$-:" "% ""
"#80..0?# D##@<0@40@'-@#'#"E " "
"(4-7"*/("##(0440'-#(
H D##@<0@40@'-P#E 9" ##(0440'-0-(
/*!/"##(0440'--* (.*!("##(0440'--<$,!"9" ##(@
0440'-"",!"/*!("#"(0440'--*(,!".*!("#&(0440@
"--"</ #40" !/2*!4&" #1*-("0!: #(0440@
'-"<2"("4"'#'-:
? H(4'#$-:" "%049g'%"
% D##@<0@4#H%-@(#E 3 0-'"
4"'#'" 044#%-% "%%"*#"/c "(%(-$0#" ,-%1"-&" +"
##(044#%-(("NN "%&#(0_,E#%-((2'/ "'#" 104
4#%-%
8 19 B "(044"%-(("' 9
? #(4'#$-:" $
$ &- Q D##@<0@4&-@[0@(-*/E (
"'+"#" '/#%-"' 2%-*/#" ##(044&-,!"'N -7
2"((0%-*/#" 1044&-"0%-*/
? ' "" +,
% Q S D#"@<0@4&-@[#E" N&I "'+"
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(0/%"/'"!-+*/*'4"&"(-/%"0!!%"'"(%''

#*%0&' /!-%0-"/% 40(' $0-%(' 4*!" +0/-"' 1-4-"5'
#-(0'+0' 9 '&-+-('0$' ' NN "'+"#"+0'-/"
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#-(0'+"/%' 1-,!-407"#-(0'+"'N d "#-(0'+"
P' 'M%' (*/'0'+"!' ,!-%%"(("(0'+"'NN -7'
&0-(("' -&-26-' "!"!: (07" "(%'-&'$-&(
#" 6-%-(' *!26-'#" /*('+0&6"!'('("(0'+"'
2"4'-:'"
' 'O '(' 2"&" /!-%U-&J /" '.'"&%#"(0'+"''
' ' ' 1 1' NN:!!(' " +*-#"(0'+"' $!
0#'*-%"Q!!"&"&" $-(%"%;-"/'"%;"&'%+10$!;&0'
#!!/'2*'%+%!%"'
4 ' B' -(%&!"',!"-&0&0((("/%'&!-%!%#"(@
0'$$&-5 &+-'"/%9!(&!"0'+"("(,!0/%)'&!"*!%+!(@
%'-5 -/#"/%'10'2".",!" ' ' R' !"
',!!-"%#"<0'+-(%!%4'"+-"'4"'-(-(0'+"'$!2#@
/" c " 0&.-("0& 2'-5 /" 2*%" ."%*!"' +0/%"(
+-@40'%-' 1' M ' '0/%6*/%"/ /"?(04"&"@
/0/5 -"/'(*"%!"%%%*-% " /-"'('+0:.!"&&0/5
"(0'+"-("("(2!$!+!"%%-(0/(' ' 3
"(0'+"-("U-&(*/%"('2 -:U '"2(*!4-(-/"(("<"/
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' ' ' :- !(' "/%#"(0'+"'"/%2*++"/-#"
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%*-"/%,!!/"#"(0'+-*+!"%#'1-/'(*+"#"0.0'-'*0.-!
-%/0%-/'"'(!%"'"!2-(0'+--&&"/%'%*
+-("%'&"*!/0%-*/'-2*-"
&"(0'+-*/%''0'2%"*%*/ 0/!'
/!!&"(0'+-('$%"(4"/#'0'$!-0%-/'!"(
0/7%!#0!$-00."2&0'-(%*!%;&-2#-/%"'("(
0/-/"'"-2,!"%%"/%,!"&0'#-(0'+-
;*/0%-*/'"&"('+*/%"'!.-+'"((-/0/%!"-/(
"&"(+0-/-*!"&0'+0(*!"!/"/%"'(*!-/0/
#"%"/#!0"(+-(0'+-'!/%"(0/4'*+-''*!'
2*0!*//"-0/%"!'"/%"//"&&"/%4'*+-/"/%"

' ?@ ! '4'-$-:"'"%"*+"&'4'*./5""%"(@
407/@ '-%"&'
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7"0-(5' '0' %"' #"(*;*("(#"&"!'"0''0/7"+"/%'
&/"&"#-(0''0/7"40('4&"!"2"&0' " A 'M'
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%*!%(-"/%&"'(,!!*&",!!*('#-(0''0/7"("
+'2+"' Y
'# $ '! '4'-$-:"'"% , '4'*."/3'
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JV ' ?-@<0@'-@+0@9!E' ' +'$"-+"
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$' 6#)? %#)' D#-@<0@'-@+-E'/'0' "'+"#"
+0'-/"' -'0/7"'&"(*;9"%0' 0''-+-('#0/('&0'20&"
#!!/'/0.-"
' -$ '# '4'-$-:"'"%
'D#-@<0@'*-E' ' NN !' '*!;&"',!-('(!'@
.-"/%#0/('&"(26*("('&"'$0'-&'*(-"/2"4'*+-@
+-/("/%4"'#0/('4"(&"'('*'*'('*!%"(2*/0/%-
10;-"#&0' '*!('-+-&-!"&"%"40'"+"/%'&"/4!-/ ;2D'
+-%"!'('0'$0-%"/!/*-*!'!'*('4*'%-+-(-+*-'&!/
"#-(0''*-"('*-4-"#"(*/%0(%-/"'
' 'O '(' 0/%"(-.'"+*'"('"+"/%#"('2*%"
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"'"+-'(&*!+"!'4'*."/5""%"('*/%0-/7"(-&-
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"'2"*!"&'*-(!"(!/0%-*/+"'"&"(2*/4'-'
''-'0/7"0/%4*!'(!-.'"*/0-/2"'+"-/%"&-"'
(*!'"('&"&&"(0!0"-*/(0%%0"&(""-/0/"(
!0'0/%#"'+!&!/"'"'4'*$*/#"(%-/2%-*/("(%"/-"'
'*!'"/!'4!-((0/2"4'*."/0/%2"&&"#"'*-('
#!/"'0%%"0&&!0'"(%'&-*"'&&"(4*!'(0-/%"
&"(&-"!:'("%!"'-/%"&-.'"("&*/&"'%-(%"&&"
#"&"+0-/%"/0/2"#"&0'!"*/%'"('%*!(+*/%"'+0
"(0'+"'!'4&02"#"'+*-/(#"(*!4&"(("/%*!"
0/2*!'+0/%*/(0/7"/%'"&"('+"!'('&"*/("'.0/2"
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!!(0/%#"'+"(+*'0!:"%#"(%"/#0/2"(2*/%"+4*'0-/"(
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''0/7"0/%'"/%'"(4*!.*-'(#"'*-("%
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&0'0/7"'0'&0'4'*."/2"#"!&0#-+-/!%-*/"%
4*!0*%0/%!'("'%(!0!"!"-!(&-/#"!"/2"&"
+*-/!("/7*/%#"&"!'("-/%"("'"%(*!4!"(("

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."/*-% #1"(%'" '"/2*/%'# -' !/"#"+-"&-"!"#" '40"
!/'(-"/' "//"+8 ,!1080/% "(%# (!'4'-/("/'#"(0'K
'*8' "% 4&!($*-;&" "/' /*+;'"' -& (1"(%*-% 9"2%## # +0
4*'%"';'(0! "%#' 9 B M
'# $ ' 0 '4'#$-:"' 'D.*8'*" + %E'
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$' $- &'D##M@<0@'*/@#-'E' P' ' #$'!-'"
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0'%-2!&0-'"(#"(*(' NN +4!%0%-*/' #0/(0'%-2!&0@
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/-"!/" 0'%-2!&0%-*/'NN "'+" #" 26-'!'7-"' #40'"
#"((!'$02"(0'%-2!&0-'"($0-'"!/" 0+4!%0%-*/' #0/(
0'%-2!&0%-*/' ?' 40&&0/<0/- +1080/% -/.-&# ;' ##(@
0'%-2!&"'&"(+"+;'"(#"((0&0+0/#'"(9" /10-40(
+0/,!# #" $0-'"@2"%%"":4"'-"/2"' [DB
N "# (0'%-2!&"' P'#S' *'--"
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$ '0 '4'#$-:"' "% *
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$' fa &a ? 'D##@<0@(;@<*H/#E' '0' %"'
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6 'D#"@<O@(0/@;-"' ;-*"E' "
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d' "# 088#%) #%#H& D##@<0@(0/@;&"@+0/N' (
+' 102%-*/' #" ##(0(("+;&"'
'O I(' "#"+*!'040(&*/7!"+"/% 4';(
&" #"(0(("+;&"+"/% "(#"((!(#-%"(0%0-/"(U,!"@
'"&&"(J' /*' 7 1 'NN :.-I' $O!%
,!"%!'#"+"+;'"("% #"(0(("+;&"('2"(."'(#" &"!"
/*+;'"' +"(!'" "% 4-"#(' (- %!' %'*!."(' 04'"(
%"&#"(0(("+;&"+"/% #"&0 '!-;" #!' ;0(%-+"/%' #"
;"&&"("% ":2"&&"/%"(40'*&"(
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9*-/#'" #"(4-#2"(#" 260'4"/%"' #" +"/!-(-'
' 0" ":%"/(-*/' % ##(0(("+;&"' !' $-'+0+"/%&"
'-26" *!.'07"' "/- '# * ' 'NN' -7' ?0-(
1-/.-/2-;&" 0+*!" ,!- 9*-/% &"!'(2*"!'("/("+;&"
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'O I(' /%' " +"'2-' "% ;-0!%# */% 4*!'
+*-' #"(0(("+;&# U-& 8 0 ("40'0%-*/' "/%'" +"'2-' "%
;"0!%#J' !0/% "/'.*!('#0+"' /10& %'*!.#?"'2-
! %' ' O- I(' 0" 0+;"#!"D%/("#"!:Z'P"
(0-' +*''*/'U/*!(+*!'"*/(J &!("%*(% "(4*-'' ,!"
/" .*''*/5 ?0-(2" /1-"% 40(' "(4*-'' "/("+;&"
0" +*'% %*!(2*+40-7/*/(#"(("+;&"' '<
B AB'D'O I B &'+" ("+;&" !" ,!0/% $0!:"04K
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%'"('7*(!(%"/(-&"(' ,!-'/" (" 4"!."/% #"(@0(a"+@
;&"' /-' %'0/(4*%"' (0/(-/2*++*#-%# "(*/% %"%-(
4*!' -++"!;&"(9 B' & 4'0/#&" 2*!'-"'
"%&" +"-/" 0!'&-"!' #" &0 2*/$'"/2"' ,!- /" (1"(@
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#" 4&0%'"'#"%0&,!" "% #10'#*-("' '(1"(&"./%"%("#"(@
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'# $ '1 '4'#$-:"' "%*(("+;&"'
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.#" #1!/'(-#7"5 #%0%#1!/"4&02" ,!" 1*/'2"(("#10(@
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V f & eHD##@<0@(-#@9# 008&'#^" '70'#"
022"/% 0-7!'#0/("%*!%"&02*/9!70-(*/5 2" ,!-/1"(%
40(2*/$*'+(';'&04'*/*/2-0%-*/' 1" ("4'*/*/,0/%
!."%#0/(9"##(0((-#7"' "4'"/#!/'"#".0/%'!
>'/*!(##(0((-#7"*/('9" ##(0((-#7"0&(9'/ P' "(("
#10((-#7"' NN ;(*&!+"/%' "."'!4(-H
: I(' % &"($"'*-%0'"*"' (1-&4*! *-%'
4*!'0&&"'#"(0((-"7"'&"(260(%"&#" 0*!"%U$0-'"&"K
."'&" (-#7"J' *-((' - ' B 'NN:.-I(' "'"(9*!-
#1"(%'"#"(0((-"7# #"&0 40%-."%#' 'A' '"@
.0/' (/' */"$!%#" 2" /*+;'"5 #"(0((-"7#"4*!'@
&0%' 4*!' 0 "' 'Q!" &"(4&!(
7'0/#"(&*!0/7"(#" "(0' 0.*-"/% "(%# +"'-%""(
40" 2" ,!"' (0/(#"(0((-"7"' -& #*//*-%#"(;0%0-&@
&"(+'-M Y
?'0 '4'#$-:"' "%
%' $- ? D##@<0@((-@+-@&0@
%"!' %'-@(1E' 6' "'+" #" #"468(-*&*7-"'Q!-4'*#!-%
!/' "- "%2*/%'0-'" '0((-+-&0%-*/' 02!&%# ##(0((-@
+-&0%-2"
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3 $- ? D##@<0@((-@+-@TO@(-*/E'
"'+" #" 468(-*&*7-"' '0.0-& 40" &",!"& !/" "(@
4#2" #" 2*+4*(#' $0-(0/% 40'%-" #" &0 (!;(%0/2" #"
1*'70/-(+"' (1"/' (#40'" "%2"((" #" 40'%-2-4"'0!:
02%"(,!1"&%"@022*+4 %
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3 $- ? D##@<0@((-@+-@&#E' / ' "'+"
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"#8088 ,7 0& ,H D##@<0@(*@(-I0@(-*/E (' 2K
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+%(#*//"/% !/' :"+4&" 0(("< '0'" #"2"!:'*-&%*!(
&"(#-#+"/%(#"(2*+4*(#(*/% 70'## &"!" (-7/-$-20K
%-*/' ":02%"' 0#-((*2-0%-*/' "(%&"'2*/%'0-'"#"&1!/-*/>
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(*2-0%-*/' "(% &0 $-/' &0 2"((0%-*/' #" 10((*2-0%-*/'
21"(%@-@#-'" #1!/-*/$*'+"&&"+"(.*!-!" "%2*/@
("/%-"' 1 20##+-" /10#+"% /- 1!/ /- 10!-'" #" 2"(
#"!:'+%(5 "% 2"(% ;-"/' ##%*//0/% 4*!" &" ("2*/#
,!-"(%*!%&0%-/' "% ,!"4"'(*//"/1;#(-%"'10-' ;'"+K
4&*8"
5'" #8088 'D##@<0@(*@(-@#E' / ' #%'!-'"
!/' 0((*2-0%-*/' NN " ##(0((*2-"'' ' "(("
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'O I(?'/07"*/(&" %"+4(5 "/2*'"6*!(
"/'"(%"-& ;"0!2*!4 #1*-($ "% +0& "+4&&8## /*(%'"
"(4'-% /10 .*&*/%-"' (1"/' 40(0(("< #10!&%'"(6"!"(
$0-"' 0"("(;"(*/7/' (0/(
2" 4"! #1"(402" ,!-& !8 $0!% 4*!' 0 /"2"((-%#'
9-* %' & 4'M B'#0/(7
'# *%' 0 '4'#$-:"'
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#" ##(0((*'%-' Q!- / "a% 40(0((*'%-' "(#%'$$"(##(@
;((*'%-"(NN -7' 1"(% !/" 26*("%*!%" ##(0((*'%-" ,!"
#" 4*'%" #0/(2"%%"#-&-7"/2" !/" &0/7!" !'0+*!@
'!(" ($-. YA
$' $- -;$$- 'D##@<0@(*'@%-@+0/E' P'
2%-*/' #" ##(0((*'%-'5 #%0%# "(2;*(" +0&0((*'%-"(
' %0%#" +0'260/#(,!-(*/% ##(0((*'%-(#"2" ,!-&(
#".0&"/% 0.*-' " ##(0((*'%-+"/% #1!/' +0'260/#'
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'D##@<0@(*'@%-'E'!' #40'" #"(
26*"(,!-#%0-"/-0(0(("'%-"(/'0 ##(0((*'%-2"(4*!
2"&0-/' 0/(O&%# #" &0 ;*/#" #"!'(/10/2*"("/#" 2*"/("
"% 0/(&"(##(0((*'%-"#"&"!("/ !0/2"(S/'%
" B +0' MA '0'% -ANN 0-'
,!!/' +0'260/# /10-% 4&!(!/' 0((*'%-+"/%' #(0(K
(*'%-"'!/' +0'260/#' ;*!%-,!"' NN " ##(0((*'%-
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?'0 '4'#$-:"' M%
U $- D##@<0@(*@%#E' / +4#26"'
#1#%'" 0((*%# #" 4"'#"&" ;*/("/(
:+I'B' -"/'&" !((*%U !%J '0-(*/' /*@
%"' ?;(/" .*! 4*%# #"(0(*%"' '<)
? #' '4'#$-:"' "% 0((*%#
%' 'D##I<0@(!@'#E 4 *' NN I #4"'@
(!0#"' 1-&&"2*-%$"'++*!"/$"-&$0!% 1"/'##(0((!"'
7 +&' ' I *40(&0-(("'(*!(&0 70'0+-"#!!/"
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+#+ (;*+'0"(,!-'*/% !/'$&"7+"%*!%4'#%4*!'"'
2".*-'-!#-$'#'"+ +"/%&"(4&!('7'0/#(##(0(%'"((1#@
26044"/% "% *'/% /" ;-%-" -/%0'-((0;&" (!"&"(4&!'0/#
%-%(-/2*/.#!-"/%(3 '1' 1"(20#" (!
&0,!"#"-& (%0 (*!$$"% +-&&" ##(0(%'"(' ' ' *!(('
@S" /" (0&((1-& "/' 0.0-% .#'-%0 -&"'+"/%&"
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+10!'0-"/% "+4&26# #!"/'4'*$-&"' -4' :-%
" +0'#260& #" */%0-% (+0-/'&"(
4&0/' #" 20+407/" "% &" ##(0(%"#" ?-/#"/' !
%,H&?+' T '$B' 0 .-"- "(('&"(+0&0#-"('&"(
;-"((!"(%*!(&"(##(0(%"#"#* 16!+0/-%# #%0-/%
'0(("+;&#((*!("+"(8"!:'8 ' ! " '40'%'.
&"%%%' ' /" .0(%" $-0++" (#&".0-%"/%*!';-&&*//0/%
2*!.'0-% +*&"/(['"%&0 ##'*'0-%%*!%"/%-#'#'" 0."*
!/'(-/-(%"" ;"!-(("+"/% !/'(- 7'0/# ##(0(%"" ,!1-&
2'!%(*/' *!.'07" *& '080&"2*+%"#" *;0!'#
' ' '.' "'.-' 'UN #2*/$-%!"#1!/'2*++"',0/%
'8*H' "# #' 1#%8@
+*&*7-"-/#-,!"-2-'2*++"*" '0''-."(*!."/%'&0
/!0/2"$*/#0+"/%&"&0 20&0+-%# "(%#1*'-7-/"'!/'
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"##(0(%'"("(% -/$&"!!/2*"/'"(#"!!'0(% ("(
%"($0.*'0;&"(' 2 1"(!/' '' +0&6"!'" -/%"&-7#
40" &0 $*'%" #" 20%0(%'*4*- ((% ,"+ /'0&%!'0&
"(/'2"(((#"#*'" 4"'-*#","('%0&" & +"%0)"'%'
!/" 20&0+-%#+#-!" 1-/2"'/#-" "+"'-%#@"+"'
#!/' #!+*//%-/0'%-!&-"'+-1!/-+*'%0&!!!&'
$&/.-&&*"+"/%"("("4 ! "'/*!.""/$*!'-#
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##(0(%'"/%&".*/(#-/!/' 0)#-+%+'"&"&*$*

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(-/*/' , !!-&'8'" ! (%2*/%"(%-*/#"%"/ ! '"" "/%'"#" ! :'("-K 7/"!'(' ' M R'%"' .O((O& +O&#"(O.*!O/%U, !-' '"$!("' %%*'%#"2"2*//O%%'"(*/'("-7/"!'J'4"'#(*/' $-"$' -/ ' M A

%' &H c $'D# @<O@<*@%O@(-*/E' ' ' 2%-*/' #" ##(O<*%"' ' ' "(%4'*;O;&" , , "&O '"(-(%O/2" ;'&O ##(O<*%O%-*/' 'O'-" O."2'&"(#-$$#'"/%"(, !O&-%#(#!O@' 2-"' ' ? ' " ' , #6'& ' *' ' , ' 4 ' M A ' O

%' $- c ' D##@<O@<*@%"E'/ ' ' "'+'"#"'26-@ -/-"' O-'"4"'#'" !O<*%"'2 ' 40'%-" #" &O &O+'" , !-' /!O 40(#-# ##(O<*%#" O "*/(" .# %*#(&"(20'O"%;'"(#" 'O2-"' ' $' " ' , ' &* ' ' * D' ' 4 ' M M

@M ? ' c C (5 4%#$-:"' "% 7

O T ' $- ' D##@(#@&# &#"E'4*'%'40((#' */% */'O #%#' &% (2"O!' '%%'"(#"(2"&&#"('$NQ!-' O #%##%## #" (O 4&O2" *!' (2"&&"-/"/%' /" 4-"'"" #"(2"&&#"' O 4*!%'" Q ' %*-%#"(2"&&#" &*-" ' . ' , ' C ' B' ' V

%' O ? % ' D#$%@(#@&"I+O/J'P'-X' 2%-*/' #"#"(2"&&"'

' D#;@(;@&#E' ! ' ' N& d %"'&"' (2"$%!' #!/'O2%"' #!!/%-%'"'$N$-H ''O26"'2" , !-' #%O-%(2"&&#' ' $O!%#"(2"&&"'2"(7*/#('NNYd #7'*((-" !/'" 7&O2" 9!(, !!;'2" , !" &O ';7&" 4*'%" ":O2%"+"/%(!'" %"!%" &O (!'$O2"'D9 j" #"(2"&&"''/' ' -'" #"(2"&&#' /" 4-"'"" , #-' (" #"(2"&&"

' :9/!' 7' %(1-&' "(% $"%O!%'"+"/%' , !" "40'@ %-" *-" ."/-" "/'2*'%&"("(*'-(#"(""&#(' -& 4*%#"@ ;O%'" , !" ;' 9!7"+"/(/" (*-% 40($"(((' % O '

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' D##@(O/@#O/ll(1E' (' ' -&-O%-*/ ' 6T , !!O #" 2*++*/'&O .*2O%-*/'%*!%" 7'O%!-%" #!' 2-"& O."2&"2*!'(-/# .-%O;&"#!!/" #"(2"/#O/2"'260'@ /"&&"3' ' 3 ' Q!-' O "*/(" .# ;'&;' 4*(@ %#'-%# &O #"(2"/#O/2" #"%O/% #" /*+('-&&!(%'"(, !" /*!(' '"(4"2% /(O!9*!'#!; !-$&/' 1'& , ' "(#(O'(*/% 4'-('&" ! " #"(2"/#O-/2" #!&!&"' &" 4 ' -& /' #O/(' ' 'NN "(#"(2"/#O/%(' #!!/' -/#-.-#!' O #"(2"/#O/2"'#" !7!#(' O4"%

' O I(' " +"(' 4"''"("% +"'U+OJ +"'" +" +O'-"/%#" &*" +!";&"(2*+++;'(2*++;'("% 'O4';(' +"(4"''"(+!"'%' 9" .*9& 40'%-" ;' &O #"(2"/#O/2"'#" &-'9" /" (!-(%"/!(;' 'O4*'%"' , !" &O +*-%-#

?' ')

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%' ' D#;@(O/@#O/ ' #O/@%1E5' 6' I Q!-' #"(2"/#' , !-' .O '"/'60(' "'O-%@2" O;!K ("'#"&O 4"'+-((-*/'#"2*/9"2%!'"" , !" #"(!44*("' , !!-&' 8'O O!((-' !/' (!" #"(2"/#O/%*!'#*/%&O #-'"2K %-*/' "(%"/'("/(*44*("3' ' ' * ' ' ' ' ' C>, / ' ' .-' 4 ' (-' #O/(> H 'NNOI O ' #"(2"/#O/%" "%'O;(*&!+"/%'&" #"(2"/#O/%' (" #-%' b4O' *44*(-%-*/' ;' +O';" +*/%;/%"' #" &O +"' , -' ;O-(("'"% (!#&*-7/" (*/' '-.O7" NNYd '("#-%"/' 40'&O/% #"(;O%"O!:' , !-' #"(2"/#O/%" 60;-%!"&&"+"/% !/" '-.-;'"' ' 4'*$-%O #!!/' ;O%"O!' #"(2"/#O/%' "(;O%"O!:' #"(2"/#O/%("% &"(;O%"O!:' +*/%O/%(' ' "'+"#" #" 26"+-/(#" $"' ' 'O-/(#"(2"/#O/%(%'O-/(, !-' 7O7/"/%&" 60('&"('2#%"(#" &O +"'' 40" *44*(-%-*/' ;' %'O-/(+*/%O/%(#"!:' , !-' 7O7/"/%&" 60!&' !-/%;'-"!'#"(%'"'("(N ' "'+"#"#" 7!"''" O 70'#"#" #"(2"/#O/%' 2"&&" , !-' 2;#"&" ("' .-2"#!!/' 4*(%" ;'&O 70'#" , !-' &" '"4'"/#' "% , !" 40" *44*K (-%-*/' */' ##(-7/" (*!('&" /*+' #" 70'#" +*/%O/%(' d "'+"#"7"/;O&*7-" -7/" #"(2"/#O/%" 2"!:' , !-' (*/%-((!(#!!/" '4"'(*//"'40" *44*(-%-*/' ;'&-7/" O(2"/#O/%" 'NNMI' "'+"#" +!(-,!" O++" #"(2"/#O/%" 'O (!-%" (" #"(%*/(#"(("#"#" 70++#!'60!% "/'60(' AF "'+"#!O'-%6+"%-, !" *7"'((-*/'#"(@ %"/#O/%" 4'"7"((-*/' #*/% &"(%"'+"(.*/% "/' #;"*-((O/%' BI "'+" #!O(%"/*+-"' -H/"(#"(K 2"/#O/%(' 2"!:' 40" &"(, !'&(40((" #"("(&"#" #!' "(&K (%-2" #!;%"O/' "(&(%-2"#!6-."'' NN 2"!# #"(2"/#O/%' 4*-/%"*'!/"4&O/;%"%'O."("" ;2&-4%-, !"'"/'O&&O/% #!' /*'#O!'+-#-')I' "#-%' "/ ;'%O/-, !" "#"(40'K %-"(#"(.;7"%O!:' , !-' ("#-'-7"*% ."(&"' (*&' "%'"(O/O%*+-2' #"(40'%-"(, !-' ("#-&-7"/% ."(&O 40'%-" -/$#'-"!" #!'2*'4(' *'%"#"(2"/#O/%

' D#;"O/@#O/ #O/@%1E ('

"% ' ' "&!-'2"&&#" , !-'%-'" */*'-7-/"#!!/"4"'K (*/O"' , !-' #"(2"/#!!/'"O2"' /"#"(2"/#O/%#"(2"'('2(:' & O440'O&% #" %"+4("/'%" +4((!" &O %"'"#"(;*++"("('O'"(5 -%(2*+4*("/%("(!&(%*!%"&"!" 'O2"" 2"/#O/%(5 -%(2*+4*("/%("(!&(%*!%"&"!" 'O2"' ' O #-(4"'(-*/'#"(2"/#O/%(#" *;'#O/(&"("#-$%;"/%"(' 2*/%' ("(#"&O2"/#O/%'#" #*/' ((! "%O;&#' "/%' ' *'O * ' % , !"&O!%'" 9OK +O-(, !!/' #"(2"/#O/% #! &2-#" ' 9 ' !'*4"' ' A' */(("'< ;-"/' ;-*/' ;-*/ ' .*8O/%&P(#"(2"/K #O/%(#"/*(.O-/, !"!'(-' O *' ' # 14 ' B' /

4' ;%'" #" 2" 408(' #;2&O'O #" &O 40'% #" -"!' &" #"(K 2"/#O/% #" %O/% #" '*-(-/2O4O;&" #!6;'-%"' -/' , 'B9 ' Y)' ' YI' # ' ' " ' = ' #"(2"/#O/%(' &O 4*(%;'-%;' (O/(-#;" #" #"(2"/#O/2" #" $O+-&&"' *(#"(2"/#O/%(9*!-'*/%#"(%'O.O!:' #" &"!'(O/@ ";%'(

' O--I' ' !-% ' "/$O/%7-! , !!O! %-"'(/"@ .*<' (*/%O4"&;< $-<' "%&-' O!%'" ("/% O4"&;#" , O#O/%' '6 , ' R' O I(' Q!O/# .*!(("'-"<'&" 2-/@ , !O/%-"(+" #"(2"/#O/% #" "'2!&"(' ' '

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$' ' D#;@(O/@#"@'-"E(' ' O&"'-"4'O@ %-, !;'" #O/('&"(+-/'"(' (!-.O/%&O 4"/%" #" &O 2*!@ 26" ;' ":4&*-%"' b

$ ' 2(2"/-$'"

' D#;@(O/@#'1E'9" #"(2"/#(' %!' #"(@ #"/#(' ' #4(2"/# ' /*!(#"(2"/#*/(' *!(' #"(2"/@ #"<' -&(#"(2"/#"/%59" #"(2"/#O-(5 9" #"(2"/#-(5 9" #"(2"/#'O-5 9" #"(2"/#'O-(5 #"(2"/#(' #"(2"/#*/(5 , !"9" #"(2"/#' , "/*!(#"(2"/#-*/(5 , !"9" #"!' 2"/#-(("5 #"(2"/#O/%5 #"(2"/#!'/' ' NN I &&" #!' ;O!%"/' ;O(' "(2"/#'"' #" (O ;O+; '" #!!'O' , !"O ;O"/;*/%'O' '"(/'#"&!)%" 'O2"' +O-, !-%&!" ' O$O-'"(5 (18 O44&-, !" O."2 !/" #O/(' &"' #;+-@& !!/' O$O-'" (18 O44&-, !" O."2 !/" +-/!%-"!(" O%%"/%-*/%-*/ O $O2-&"' ;*/%;' (!" (*/'$"*/% ';40/#!' S!(, !!O!:' +*-/#'"'(#;%O-&("(% #!O;*'# #"H/#!P ' . 'Y'&&#"(2"/#O-%#O/('&"#;%O-& #"('#-$$;'"/#('#" ("((!9"%(' ' O ' * ' *, ' ' "(2"/#'" #O/('%" #;%O-&' (-7/- " O!((-' 'O44*'%"'" &"('#;%O-&('&"('2-'2*/(%O/2"(' 40'%-2!&-;'"('NN d 1OK ;O-(("' (" 'O.O&" Q!*-&' 9" 4*!!O-(' #"(2"/#'" ; ' *" ;26" O'%-$-2" * ') ' ' Y ' @%@"&O#" 40' #"(2"/#' ;' &O +*-/#'"'4'-;'"3' +' A ' - ' Y ' 1"(%' ' $*-' #!;&"."'"(' ("(%-+-"/%(' O!;' +-'/(' */ ' ' ' ' ' ' ' ' ' '

(+' ;' ' ;' ' #"(2"/#' A ' ' 'A' 1"(%O.*-" $O-% ;'O!2*!4 , !" #!O.*-" , !" (!-.O/%'"/%"'%-+"/%' ' "(2"/#' 9!(, !"O7" 2*#"/#(' ' 1*7! "-&#"#"&&"(' 6;'*(#"' 8&&O' -/' # 'B' /'7'//'''"(2"/#O-&9!(, !;'2"% O'%-$-2"' ' S' , !" $%% ' "-. ' &' S' ' , !" O "2' %*-' #"(2"/#'"@;'++"' 2 ++"%"' 9 ' 9 ' -/' M' O

;*/%"#"'#"(2"/#(#"#' +"'9!(%-$-"'' -/' U ' -. M' SO+O-('&"('7'O/#('-(/1*/%#"(2"/#'2"(;O(@ ("(((' _&"('2*/$-(-O/%-*/('J'-/ A*, ' A' O/('&O (!-%"'-&"/' #;4'-/ #" 40(#" 2"%%"' $-;' ' 7'-44-/'' +-"!:'2*/("-&;'"("' $-'"#"(2"/#'"' ;'#' 2*+4%"'"/#-(O/%(' (/ ' > ' S*!#"' &-d ;26*-' ' 1;*'"!" #" .*-" !/' O!%" O!' 'O/7 , !-' .*!("(% ## % &" 9!(%" 2607'-/'#!O.*-"%*'4 #"(2"/#!' ' C) ' -/'M ' K' "'+"#" +!(/ , !*' O(("#" O-7!'O!'7'O.' "(2"/#'"4-%(' ;O('NN " "'+"#"+O'-/"' #"(2"/#'&*'(' , !!-&260/7" #O/('&O #-"%-*/ #!'/*'# ."('%"'(!'-('(" #"(2"/#'"' "X& %(!-%%"%%!9*!'(' O."2' O!:-&-O-" '&&('2'*-"'/%;'%'' #!'(' '2!&&' ' 9 ' ' J' '&-.' -. #O/(#"(2"/#!(' #!

"S" /" .*-(' 40('2*++"/% */'4*!'O-%#" !@ %"'" #!' +O/-" ;;-(+" #"(&;-7"'" #" !&(O!%' (*-%' #"(2"/#'" #!' 6;'*' #*/('&" (-"'/" !' "/#O"'&"' (!'/"' #"(2"/#"@ ;(2"/#("' #!'(' '40' &O #"(2"/#'"+ 4' % '2*/(;'"#" /'"!' *'' '*' "("(2"'2"%%"' (*/'$O/2 !O.*!' O!' '"2*!' (" "'+"/% #" $'O/2 ... +"(*'%"'@ "(% #"(2"/#!' ;' #!'2" (" #"(2"/#!O/%(' @#"/#(' ' !H*<@ .*!(#"(2"/#'"&' ;O!(' ' ;'O*&-%;"' "4 ;'"'"/' $-&(' 40('-' .*!('-"'" #"(2"/#!(

4*!%('"/#O/% , !" 4"(+O&'O!"'(#"(2"/#O-"/%' #"(2"/#O-"/% 4!'('"(% , !-' (*/% "(2"/#!

#O/(#"(2"/#O/%(#" #"(2"/#O/%(' $O-%' O/% #" (*/ %'"(4O(' ' 2*++" !/' , !-' #"(2"/#' !' %"+4(;O!'' 40'% +"/% #!' 4;'" , !" 70'#"

[remainder of page consists of garbled glyph strings in three columns; font encoding is broken and the characters carry no readable text]

)M

3: ; G2B0' B2' 952' .=9320' 23' 988' ; : 9B B' LL 7]' ! 23'
3B20' 4'<:82B' =' 32BB2' 5' ' 428.2549' <+98 29B8' < 8'
8 J2B8' 4 58' .2332' 3 2' ! :5' .B2' 93' :G+ J4' 42' ; 2'
428.2542' 6' ?92+?928' < 8' 42' .G2M' 2++20' 9 "1'
0 -' <:B3/0' 3' B 0' N6 < B3' <' CC0' 4 58'
L0]' 2B ; 2' 42' ; 98 ?92' 28.254B2' 95' 583B9 ; 253'
42' ?92+?928' 3: 580' 25' B2+4.=2B' +28' .:B428' LL 28.25K
4B2' + ' J ; ; 20' + ' < B.:9B B' 25' ++ 53' 42' D J9' 5'
JB E2'
-' ?' ' 28.254B20' W ' 5 ' 82' .:5@9J92' E2.'
& 9A + B2' 5! #' ?9 54' +' ; B?92' 952' .3 :5 ' +' '
428.2549' =' 32BB20' 988 343' ?92'+2' E 882 9* 93 G:B44'
E2.' & 9A + B2' * # ' ?9 54' +' ; B?92' 95' 43 3' +28'
< 88 J2B8' 8:53' 428.25498' =' 32BB2' 42<9 8' +:5J32 ; <8'
&283' <:9B' ?2+' ?92' 428.254B20' 9' 8258' 4&4 B2' 8890'
82' .:5@9J92' 3:9@:9B8' E2.' & 9 + B2' 4 B2' LL ' 3* '
; :5' ' 4 3' 428.25482' 95' .=2E +0' <:9B' 428.254B2'
4&95' .=2E +0' .2+ ' 5&283' < 8' 6' ; 32B ' >2' 8' 3B: 8
.= BJ28' 89B' 95' 2A.2+253' .:9B3 94' G ' GB95' ?92' @2'
5& E 8< 8' 428.2549' 42<9 8' ?9 3B2' =29B28' 49' ; 3 50'
0' 7' ' 28.254B2' 95' 28. + 2B0' .&2830' +:J ?92'
; 2530' 428.254B2' +2' +:5J' 4&95' 28. + 2B' 428.254B2'
+ ' J B420' + ' 3B 5.= 220' .&283' 428.254B2' 42' + ' J B420'
42' + ' 3B 5.=42' ! 8' &98 J2' ' <B4E +9' 42' 3B +2B' 25'
.2.' 428.254B2' .: ; ; 2' 95' E2BG2' E4B 3 G+2 ; 253' .3
' # 'S 6 8' 3' +' ; 288 J2' H+28' ; 288 J2B8I' 428'
.254 B253' =' < 240' ' '< 'E ' 2E2B8' + ' 32832'
8 B'+2' .92B' H+ ' ; :B3I' +9 ' 428.2530' 1' ' J25'
3 +M B2 8 428.25493' 283' =' < 240' 3G' ' LH A D8 '
' .:58' H+2' .: ; 320' :+ 53' 428.253' 49' <9 ' E40' <
<' "7' ' B. E28?92' 428.253' 25 ; ' +2' <B40' 1' <' %'
58' GB 2+' 283' _' +9' 428.25490' 1' <' 'N' $92 ; '
4 ; 2' 882' < 3 4' 428.254B20' , ' E' D ' ; 288 J2'
B 48' 428.254 ' 9' <2BB:5' # 7' A E' ' .9258' 9 +K
+ 9 ; 28' 9' .:B J2' 49B4' 28.253' 8' 5 2.2' 42' < +2'
B: ' +:4' ' ' &% * ?' C7 C' :B8' 428.254'
B2530' ; 53' ?92B 3' @9J2 ; 253' 2' 4B: 39B2' 2' 4282B30'
') ' 0' 'LLA]' 8' 3' ; 252B253' E2.' 298' +2'
+' &2 ; <2B2:9B' 42' :583 53 5:G+2' 23' 3:98' +28' E28?928'
23+28' GG48' 42' &:830' 23' 428.254 B253' 42' +:B' .=2E 928'
' A' 9' <2BB:5' 42' + ' 8 +2 + ' B:R52' 428.2530'
' ' A' ' 8:53' 3:93' 428.2549')' 32BB2' 89B' &2BG 2B0'
1' S S' ' ?92' &2E2' 49' .92B' 89B' + ' .2' 25' 428K
.2530' 1' S ' ' B: 8' E 53' 23' 8' .:5< 5J5 :50' 2'
E 53' + ' 8:+2' 428.254 40' 3' .' + ' 283' .=233' 9' < 240'
< ' FCC ' E: B' .:5E 2530' 4&: +' 428.253' +2' 5:5' 42'
4B: 30' = / ' ' , '* ' 2@& ' <2B2' 23' 82' >& ' 25 58' 23'
@2' ; 9 B0' ; 28' =2B 3 J28' 428.253' =' ; 28' 25 58' 23' 5:5'
; :5' <2B20' ' 2A' H32+28I' 42 ; 54288:53'
@:2++428' . B' 2+288:53' <2B8:5 A' H<2B8:552+28I0' <:B.2'
?92' 2+28' 3:9?9253' +2' 23' 42' +2' H+ I' <2B8:520' 23' 8' 8:53'
B22+280' <:B.2' ?92' +2' H= I' 58' 42' +2' H+ I' 42 ; 542' 428'
.=253' 8:B' &2B 3 J20' ' ' 2' B:R' 428.254' '
32BB2' +2' @:9B42' + ' 2932.:98320' ' 5' .:BK
42+ 2B' E 53' ' + ' 9' .= 832' 42' D 2B28' H# 2B28I0' + ' : +'
5:98' 428.254 ; 28' 42' ; 2B0' ' 77' +' 82' 428.254 83'
42' + ' 52 0' ' F ' +' 283: 3' 428.2549' 4&952' 428' 829B8'
+2' B: ' =2+ <<20' ?92' &2 ; <2B29B' ; 2 8 ; 28' :3' ' 2 ; ; 20'
' N%' 2' 3:' 428.254253' 3:9328' G:532M0' O ,
' "7' +:9' >2= 58 ' 8' 8 E: B' ?92' < B' +: +' 4 8K
.B23 :5' @2' 89' 428.25498' 23' .:58253' 8' ' + ' <B: 2B2' 42'
B2+ J :98' =:9 ; 28' & GG4' 23' +2 .:5E253 '
% * 1 '))' 0' = ' '3 11 4' ' - 4' LLAE]8'
' 82' 428.254 B253' 23' 82' B253' +29B8' +:J 8' 89B' .28'
G2 9A' <B 8' 89B' + ' B E 2B2' 42' :B4 :J520'
' 8' H+28' . B4 5 9A' ?9' E:9+ 253' ; 252B' + '
< A' 253B2' +28' 429A' < B3 8I' +28' 3B: 9E2B253' 8' 49B8' 23'
8' ; +' 428.254 58' ' .:B40' ?9& +8' 52' +28' <:9E: 253'
B <<B:.=2B' 42' 59++2' < A0' ' ' ' 3' 8' 3:83' ?92'
9A' =:832+80' 89B' +2' .=2 ; 5' ?92' 5:98' 28 8 ; 28' 25K
82 ; G+20' 428.2549283: 8 ' ' 0' ' J92BB2'
253B2' 42GA' JB 548' <B 5.28' 283' G 25' 8 2' ' .: ; ; 25'
.2B0' ; 8' 3BG8' ; 9E 82' ' << 82B' <:9B' +28' .=:828'
?9 ' R' 4E 255253' 23' ?9 ' 25' 428.2542530'
9' 428.254B2' 42' + ' ; :53 J52' :5' E2 3' +2' <+2 5' < R8'
42' + ' : ; G B4 20' ' N' +' 82' +2E ' 3:932 : 80' 23'
& 93B2' 82' 428.254 30' +:9 8' A 0' . , / ' AAA E' LLAE]' 8'
$92' +28' <+98' < B 38' 428.254253' 25' +29B' .:58. 25.20'
23' ; 25253' +29B8' :29EB28' ' .:5320' '$ 'M '
:932' + ' 59 .3' @2' < 88 R' 8 58' 4:B ; B' 9B' .2 JB 54'
BGB2 ' 23' 9' ; 3 5 ' ! 2' 428.254R0' 3B 8320' ; :B52'
23' < ++ 20' ' 0' C' :B8' ; :5325' H+28' ; B 58I'
9' . 2+' = 93' 9 8' 9A' J:9 B28' 428.254253' 5' E0'
F' +' 428.254: 3' :B J 52++2 ; 2534284 29A0' ' -'
C ' 2+ ' 93' . 9 2 42' B2' 428.254B2' +28' 93B28'
B2.8' ' 8:5' :< 5 :50' 23' 82' <B2< B2B' ' .: ; G 3B2' < B'
; 2B0' $ ' 9 ' ' ' 428.254 3' = G +2 ; 253'
828' J258' 25' 32BB2' 42' 59 .30' 23' + ' ; 233B2' +2' 29' 42K
4 58' +29B' . ; <0' ' O " ' 3B E2B8' + ' ; 2B'
8 58' :B3952' 0' 23' + ' 428.254B2' 25' < B20' ' -
' ' 3' 52' 9+3' < 8' :9G+ 2B' 42' 428.254B2' 3:9K
@:9B8' 25' 8:R' ; 28 ; 20' 23' 4 B2' ' < B3' 8:R' 52' 89 8*@2'
<: 53' 32+^' ' ' ' , ' ,

' $%' '*."/4' ' ' 20%O&'
* '"(407/' * ' -&O&' * '#!'
&O%-/' * ' #!' 4' $-:"' ' "%' * ' 4'!"'
* ' + 0'26"" D.*8' " @
' D# @(O/@#!' #!"E' 40'%' "
#"(2"/#'"' NN I' Q!-' "(%O&& ' #!.!/' &-"!' 4&!(' &". ' ' !/'
&-"!' 4&!(' ;O(' "(2"/#!' #O/(' &O' +-/"' "(2"/#!' '
%"''"' NN -7' "' +O&6"!"#"' %O' $-&&"' O!' %* + ; "O!' #"(@
2"/#!"' O"' !/' 2*++!/' %' 40(' ' .-' $' Q
%*-' ,!-' .*-(' &O' 6*/%"' * ' 9"' (!-(' #"("/#!"' '
0 A ' /-')' 0/(' !/' 7*!$$' 4'*%*/#' -*/' "(%
#"(2"/#!"' "' & ' ---' B' &" .*-(' &O' . '-% ' #O/(
%*/' 2*"!' #"(2"/#!"' 9 'U ' / ' Y' 0/(' !O@
;%+"' "$-'*8O ; &"' * ' 9"' (!-(' #"(2"/#!"' "' 9 * '
' 2'*-(' 40(,!! ' 2"' 4*-/%' #"' + */' 'O/7'
2"(2"/#!"' "' # ' ---' & ' -/7%' (- ; 2&"' #"(K
2"/#!(' #O/(' ' %"+"--"' /!-% ' *!% #-% 2*++"' %*!%
260/7" ' " -"' 2--' *++"(@/*!(' #"(2"/#!(' '
2" 4*-/%#"' # %"'((" ' ' 9' 3" ' ---' '
' d ((!' SIO-+' "/' "&&"&"' (O/7' #*/%' "&&"' "(%#"(K
2"/#!"' ' 6' ' %&"' 9"!/"' 7'-440' #"' (*/'
(O/7' #"(2"/#!' " .-%' ":2&!' #!!/' 'O/7' .O-/"+"/%
4' %"/#!' " + ' Y' ?-('O ; &"&' "%9"' .-("%9"
(*!%-"/(' &O .!"' 2"(O2' (*&"-&#*/%9"' (!-(#"(2"/K
#!"' 'O ' " * ,!-' #"' "/90+-/' 2*++"' + *-
#"(2"/#!"' ' !(' #" +"(' 4'"+-"' (O/(' %O 2*+407/'
O((-#!"' "'> '-' ' O/(' "(4"2%#"(' O&"!:#*/%
"&&"' "(% #"(2"/#!"' '# ' -; '-!(' "% O !(
'O226!(' #"(2"/#!(' 40"&"!' +"' #!' $O+"!' 2-@
4-*/' (*!%-/'"/% 40" !/' 'O'" + ' -%" 1 2&O% #"!"' 2
/O-((O/2"' ' 9 ' ' YI' 40'%' 26 ' '
6 '*(' +O&6"!"!:' #" *!-&&*/' #"(2"/#! ' 9 '
U ' / ' ' NN Yd Q!!*/' 0' +-(' 4&!(' ;O(' "%O ; &"O!'
#"(2"/#!' O$-/' , !!-&$#%+-"!:"/.!"' /' 20/04 ' #"(K
2"/#!' 40" &O' $"/ %"' NNS"%' '%"''"' ; &"((' * !'%! '
1 2!"!-&' #"(2"/#!' #!!/' 2*!4' #"' $!(-&' 0' 260,!"
2*!4' -&' 8' "/' 0.O-% !/' #"' #"(2"/#!' UN /' 2"' "/(' '
"(% $O+-&-"' ' NN ' O'2*!!' #!O+*/%@ "/' O.O&' "
$&"!."' #"(2"/#!' 40" &O' $&*%%-&&"' 6' "(20&-"' #"(2"/#!'
&"/%"+"/%' O' 2#%" #"(2"/#!"' O!' 7'O/#' 7O&*4
%' D# @(O/@(-*/E' ' ' NN ' "'+"
#!O"%-&&"'-"' *!' ; "#"' &O' ; * + ; '"#"(2"/#O/%' 40'@
%-"#!' 4&!(' 6O!% 4*-/% #"' (*/' O(2"/(-*/(' NN ' "
#!O(%'*/*+-"' -(%O/2"' "/%' &"' 4*-/% , !-/*:-' &' "%
&"' 4*-/%#"' 1 , !O%"!"' , !-#"(2"/#' (*!(16*'-<*/' "/'
+ +" %" + 4(' , !!!/' O(%"' O' #"(2"/(-*/' "(% #-%"
#'*-%"*!*;&-,!"' (!-.O%%, !!*' &O' 044*' &"' &O(46 '"
#'*-%"*!' 'O(46 "'*; &-,!'
#&* ' O%' ' ' * ' #"(2"/#!"'
b0' ' D# @(O/@(-*@/ &!' / @
1E' 6' "'+" #-#O2%-, !"' Q!-' O !' /#O/2"' !/"
+O'26"#" 60!% "/' ; O(' ?*!."+"/%' #"(2"/(-*/@
/"&' & "' +4' #!O(%'*/*+-"' -$- ' "/2" #"(2"/(-*/@
/"&&"' 2"&&"' ,!":-(%"' #"(2"/#!' O!' 7'O/#' 7O&*4
&O' #"(2"/(-*/' * ; &-,!' #!!/' O(%' "
'# $ ' ! *
' D# @(O/@$E' (' ' LL] 2%-*/' #"#"(2"/K
#'"' #! &&"' #!!/' &-"!' &". "' "/' !/' O!%' &-"!' 4&!(' ; O('
O#"(2"/%"' #"'S (!(@ 6'-(%O!:' "/$"' (' O#"(2"/%"
#!!/' *! . '-"' #O/(' !/' 20'- '"%" (/O% /1 40'7/O-%
4'*+"((" /& +"/O2"' %'044"&O-% 40"&' & ' (*4' "(20@
#'*/' +!%-/"U&"' 4"!4&"' (*!&-' J % #!' +*/% Q!-'-/O&
"%' #!' +*/% ."/%-/' ' *!% -& 1O!'O-% .!' $O-'"' !/"
6*"'-;&"' #"(2"/%"' ' .* ' (4'(O-/%
"(4'-%402-$-,!"' 9"' .*!(O-4' 40' ' &"(' .*-"/(' 4' @
260/%' .*%"' 40'*&"5' + O' .*-:'O %' ("+ ; O;&"' 4"!%@
%"' 2"' ; '!-% -+4 %!"!-' ,!-' O4' ."/!' .*%"' #"(K
2"/%"' ' 3 ' O (*&"'/ /-% ' ,!"' /*!(
2 & ;'*/(/!"(%4*-/%'2*++"&"(O!%'"($ %"(2"/#' 1O/@
/ "' !/" (-+4&"' 2*++ +*'O%-*/' +-O-(' &"' + "% '"
+ +"#"&O' #"(2"/%"' #!' O-/%@ (4'-%' "' ' B4
0 ' %'- ' 4') 0-/%@ -"'"' "#"(O'4'"#"
+- '" H4&%"' /" /*!(' 40' &" #"' 2"%%"' #"(2"/%"' !-'
"/$"'(,!"' 2*++"' #!!/' +-((-*/' #-.-/"' , !!8' $-% &"
O!."!"' !/' +*/#"' ' - ' 4
' 4' R ' /' /" 4"!%40(+ +" .*!(%"' #O
&*!O/7"' #!O.*-"' $O-% &O' #"(2"/%"' #!! / " O!:' "/$"'(
4&!(' ; "&&"' , !"' /!"(%@ 1 .*20%-*/' #"' #"' (,!-' "%#O/(
-1 #8((' "' ?' !' ' ' */"' ' * H '
' "(2"/%"' #"' &-%' 4"%-% 4-(#"' "60+ ; '"'
2*!26"'' 4&O2"' #"' +O/-' ' !!*/' 8' 4*(' &"(' 4-"#(
, !O/#' */' #"(2"/#!"' &-%' NN ' #O/' #"(2"/%"' 4"/#O/%
&"' +*+*/%#' &O' 4"' (*/' ("%' 4*-%' &O' (1O7-%#"(2"/#' #"(K
, !"&, !"' 40"%' &O O &O' "2".*-"' &O' #"(2"/%"' #"' &O
.*-%!' #"' 1"(2O-%' S18' %"*!.O- C-&#"+"%' "%
, !"&, !"' O!%"' -"//*-(, !-+1O%%"' #O-/'%O/%
#"(2"/%"#!' ; O%' O!' 9 ' ' :--' NN I'
("#-%O!((-' #"(26*"(' , !-' .*/#"' 60!% "/' ; O(' O
#"(2"/#"' "O!' 60#"(2"/%"#!/O '*(%O/%' NN "+"
#" 7"*+ %-"' -7/"#"' &O' 4&!(2*!"%"' #"(2"/%"' DO!@
%"+"/%O44"& ; O26-(%*26'*/"E' 282&*-#"' 2*! ; "
(!&.-"40" !/' 2*4'(,!-' *; -((O/% ' 1O2&-*/"' (" !&"
#" &O' 4"(O/%"!"' 40((' #O/(' &" ' +*-/#"' %"' +4(

4*((-;&"' #!!/' 4*-/%#*/!/' ' !/' O!%"' O' 282&*-#"'
O' %+' 7'O/#' /*+ ; '"#"' 4'*4'-% (%' (@(-/7! '"(
"%' 2"&&"' #! %'"' &O' 2*!' ; "#"' &O' 4&!' .-%' #"(2"/%"
/!"(%' 40(' */"' #"(' +*-/(' ' +"O' , !O ; &"(' "'G
' , 1 ' NN Y' 2%-*/#"' 4*'%"' "/' ; O(' !/'
26*"' O#"(2"/%"' #"2"%%"2&*26"' /"' ("' O40(' $O2-&"'
' "+"' #"' 4"-/%' /"' #"(2"/%"' #"' 2'*-: '%K
; &"O!' "4' ("/#"' 2*'4' #"S (!(@ 6'-(% , !!*/
%O26"' "%#"(2"/#"' &O' 2'*-: ' NN "+"' #"' +O/"7"%
"(2"/%"' #" +O-/'+*!.4/% 40"' , !"&' , !-%%O/%O/%
&"(' / "' #"' &O' +O-/' 70!26"' */' &O' #"' *%O/%
9!(, !O!' ; *!%"/%!' 4*!' (!O((O/%#"&O' "/' &"' 2'*-:
/#"(2"/%"' 9 ' ' #"(2"/#"(%#"' 2"!2"%%"' +O-/!' &"' 9@
' "' /"' #"(2"/%"' ' "' ' *!2"%%"'+"&O' #"'
"' /"' #"(2"/%"' "' , !"'&, !"'S!#O(&"' 4*!' #"(2"/%"'
(!-%%"' &O' #"(2"/%"' 2"&&"' %"!"&&"' #O/(' !/' ' 40' ; %@
0' 1 ' A * 1' -' - /' NN ' "+"' #!":4&*-2"' %O
%-*/' O&"' &O' ; "' %"' 1 (!' &O' 4"/%' ' #"' 2*!26"' *!'
#!' -&*' ' R' #!' !/' "' 7!"' " ; O'
%"!4"' (4*!%' "*/' ,!"' , !"&' #"' 4'08'(
! ("(4 , !"+"/%' 2"&%"' 4%' &!-%' "%+"' 7'-%' &O' 4"!%' "%'
(O/%' &O' 4&O2"' &O' #"(2"/%"' #"' ,!"' 4*-/%' #"'
&"' +*-/(' +*!-+' (!' 1!' /!/' "' +"!%"'
2"!%"' ;(%' ' S (!(@ 6'-(%O' , !!*/
2"/#' "+"'@ #!' 2*!' "!$-' 4"!%40(#O/(' 2"' +*-/'
+O/"' 9' #"' &O' ;"#"' #"' 4"!&' O' 2*/("&
%"' 40' 0- O' %"' / &"(' 4"' 4'"/#'"' #"' 2*-:'
2"' $-/' ("&O' O/"' +"'+"' #"' 2'*-: ' 4'"/%"'
"(%' + !/' '"%' 2*!+"/%O/' "/' -%!#"' &"' 2*"!'
&"(' #"' &O' +"!'"' %*!'"&&"' #"' 7'*-%' #"' 4'*/%
(-/7!&-"'+"/%' #"' 2&O-'"' ' O!&' &"' 2"/%"'
"%' ; "O!2*!4' 4&!(' ;' ' #"(2"/%"' *!' #"' ; '
!' +-&-"!' /"' (/%' #"' 4'*4'-%%"' *!' #"' @ '
4*!' &"' 2*/%-/' #"' &O' +O-/' #*/%' 2*+/"' &"(K
"(2"/#!(' ; O' ' "(%' 4"/#O/%' 40(+*-/(' #O/(
2"' 2O&"' &"' +"+"' 4&O/' "(%' 1 /' %"' %*!%'
"' #"(2"/#!' 7'-4"' #"' &O' 4'"' %"' "(%' #"' 4&!("/'
O' %"' 2"' ?!-' 2*!(%"' 2*/'&O' !/' +"!'"' ; "' #O/(' 4"(
&O' 2*+/"' #"' &O' (4&"/#"!'"' , !-' &"' 4&!(' #-$$-2-&"'
&O' 4"-/%' !/' "' #O/(' &"' 4"-/%' #"' 4"/(%' "'
D
X' ?' "''8' * ' 1O/2-"/' $'O/4O-(#-@
(O-% O!((- * ' "%' O!' +O(2!&-/' * '
4'*."/4' ' = , " * 'O#*// '
' 7! '"+"/%' * ' , !-' ("%' .'"5' * 'O
#*// ' * ' "%&' 4'*."/4O&' #"-(("(5' +O-(' #"(K
2"/%(' O' %' $*'+' ' #" * ' '-+-%O%-*/-/' #"
' , !-' .-"/#"' , ' #"' ' , !-' .-"/#"
/ , ' "%2
%' f _#' @(@4%' E' /' XM%"' &"(2"4%"5
%'#/"'
' / ' 19 B' ' "(2"4%"' *$/-=
$' ' ! ' 4' $-:"' "% * "
\' ' D# @([-@4%!' E' (' "&!-' , !-
2'-% &-//"' &"#"(2'-4%"!"' "%&"' 2&OO((-$&"O%"%%" #"(
4&O/%"(' "% #"(O/-+O!:

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+*'O&"' e H"/$&"@&O(-'&--"/'U&O(!4"';"'% 1O+;-%-*/J'
,!!"&&*'(*-&%*!9*!'('4'M%"'O.*-",!*2602!/'(!'"%O
O" !/'#"'/-"' +H4'-('*(('-+4'-+"'("(40('
'$ 'DDM%"' 1"/$&*'"%$!'&O/707"' "(
#-"!:',!O/#&"!"'"(4'-%"a%(O7"'#("/$&"/%4*!"
/*!('&"!'&--/707"' %8"!&"/%;-"/'M%"'/%"/#!('
'A '-+, + ' 'NN I X' "@
./-"+*-/('"/$&#'*/';'O(2*++"/2"O##("/$&"'
YF "#("/&&"'' '"(("#!"%"'"/$&#'";O&&*/'
("##"'/-%O'N -7' /("/(-;&"+"/%9P'29*80-('.*-"(O
%['"##("/-&"#!'."/%#*/%"'#%O-%"'+4&-"
? ? %'?+' ' 1
H 'O I'(X@ +4&O-(%"#2O!%(!"&"('+O+"&"(
,--'(*/%"/$&H"('40"1O;!/#O/2"'9!&5-&"('#"("/@
$&"' % 'NN:.-I('&('"'"9*!-((*-%#*
."*-'&"('"O!:'2*!&"'"%(*/'8"#%'"#"("/-&
'B'O!%#-$$"'"&O'"#!2%-*/'&!(,!"('O*"',!"
&O4O'%-,H*-%#H"/$&*'":---'Y'%#"&&-'(*/'."/K
%'"("#"("/$&*-%-':.-/'BI'*8O/%&"(#-$$&2!&%#(
#"4O'&"'"O(O(O-/%"%'"%,!"(O;*!'("#""/$&*-%
'&-'#>, "'26'GA'b
'#$%'! '4'$&:""%"/&"'5'4'*.";$'
I '2O%O&'#"(%/S*/
H 'D#"@:O--@&&!H'E^'' &-O-/!%-*/'
#!"/$&!'"
'#$ '#('4'$-:"'"%+HP'"' I
'\'$- H &='_##-OO/@$*!'@/#E'/ ' -'"
#!'$*!' ' ;(*&!-/"/%' -#g'&"'$*-O''$O&&!%#O("@
$!/& "O&O'6B#"/^'b@
'/ '19' '&!(-"!'X #"-/"('2'"#-%"!'('O2@
2*!'!'"/-'#H('&"+O%-/',!O/#'9"'2*++"/,*-('O
#"("/$*!'/"' !((.'' IB
'M ?' '4$$-:""%"/;!+"
%'$- ? 'D#@<O/@$/@+E'bK' 6O(("'&O
$!+ "#!/'&-"!' ("/$!+"',!/"26O+;"'NN-7'
O.-."'&"("2*!&"!'("%"/-"("4O%&O$!+"'("/$!@
+"' /%O;&"O!'' b
E = 'K'4' --:"' ' ^
'%')#8#H-O-# #/&'D###@<O/@7O@9"@+O/E'
2%-*/'#"##("/707"'*!'#"("##("/707"'
!O' :.$(' '026O%"%#"("/707"+"/%,!"
/*!('"/'O.*/('$O-%U#!/';-"/J' '%'!&'
O F '4'("#O/(' '-':.-I' "(O!%('
&"("/%"&O(("!"(H&"('#"("/707"+"/('&"4*%"#"&O
9O'-"%-"'"%-O'7'O2"#"('$-&&"('4*"%*-"/%9"/"(4O8
,!"&&"4"%-%"&O(2-. #+N7/O'#"
'-'!'4'("'#O/(!2!
'#$'
%'$- 'D#"@<O/@7O@9#'"'4'"/#!/'"
#2.O/%O'*!'*>/*!('#"("/707"*/('9"##("/707"O-(E'
"O' "%-'"#!/'"/707"+"/%NN"%-'"'!/"-/.-%OK
%-*/' '"+"+-&-%O-'"9H/!&"'1"/"#&"+"/%'N
##("/707"' ' "%-'"!/'"/707"+"/%,!!*/'O
4'-('1O22"4%O%-*/',!!*/'O.O-%$O-%"#!!/"-/.-%O%-*/
:O' "%*!."'#"("/707#"/707#"/2"(@
(-%#,!-;'-#"&"('O!&%"(S? '--'Y' "("/707"'
2"-!-'.!-'+"#*-;!"/'!(O/%#"&!8'*!'+!"/707"'
/."'('2"-!-',!-'/"'/-"#*-;%'9"/'2"'("%!/'"
-. B' '*2'O%"('4&O-/7/*-%1O'7"/%#"("(O+-(#"(@
"/707#"(O8-"+'-.'&*('-&"+O-(%""#"2"!:',!-
"(%*-"/%'O"!(%"(%##"("/707#U##&-.'#J'&O';"(*7/"
"(%*-%$O-(%"' ? '!'O%"'"26H0&'O8H%
"(%#%!#(*!(&!8'O4%#(,!!-&(1"/'$!(%#"("/707#'.-/%
&"2O4-%O-/"#" O(%O&#"O2;".O&',!-&"4'-%4'-(*/@
/-"' '%'-'4'B&'#O/(> #
B'#$' '4'#$-:"'"% '4'#-%4&!(
(;!."/%"%+-"!:'##7O7"
b'$f)H H 'D###@<O/@9O/@(#' "'24'"/#!/"
2##-&&"#".O/%O'"!*5'/*!(##("/7"O/,*/('9"##(@
"/7"O/,O-(E@'/' #;O'O(("'#!/"'"/7"O/2#
'O I(' "('4&O/%"("4&O-(%2"/%'"&"(
+!'O-&-"("(8-"-&&"('+O<!'"('*[(1"(%O/%!/"'$*-(
O%%O2;"'#&%/2--"+"/%1"/'4"!%@*/'#"("/7"O/2"
cQJ
'#*%' '4'#$-:"'"% *
%' 'D###@<O/@7*!'@#-'E'P' ' "%-@'
'"'#"1"/7*!%#-(("+"/%'-9 "##("/7*!'#-''P'
'%-"#"1"/7!"H(("+"/%'Q!"&"!"2*4('("###@
/*!"'%("##("/7*-&'#-((" ' '#'
'?' '4'#$-:"'"%
%'$- 'D###@<O/@7'"@/#' O(8&&O;"
4'"/#!/'O22"/%7'O."',!O/#&O(8&&O;",!-(!-%"(%
+!"%%"'9"'#"("/7'#/"'9"##("/7'#/"'O-E'/' '#@
%O2;"' !/'"/7'"/O7"' '##("/7'"/"'X'
,'%-"#"(*/'"/7'"/O7"
V ?' '44#$-:"'"%"/7'"/"
$'$- 7 D###@<O/@7'"@!"!$E' '+'
."+"#"#"+O'-/"' -#2"#"$"",!-'O-#"O##(#/7'"@
/"'&"('+O-&&*/'#"('2O;&"H6O&/"(
I''f-N'!
b HH f'D###@<O/@-.'#@.'#"E'"'
"'';!%O."*":2#(4!-('##("/-'#'-&(1"$&'O&O
b#2('#-(2*!'('G1H'O.O-&%*/!(' I

%' ? 'D###@<O/@-@.'"@+O/E'
2%-*/'#"##("/-.'"'*!#"("##("/-.'"
'?' '/
f %G- D##T@<O/@/-@.'#O/'4'*!*%%2#**++"
#O/(O/%-,!"E'!'*NN-I' O-'"40(("' 1-.'"(("'-1"$$"%
#!'.-/'4O"6O!&'"%4O"6O('$!%%"&,!!*/'/'$!%"/"
4"-/"'"%/"&O##("/%.%O'4O(U&O#!26"(("#" "'8J'
&&!B%'A' ' ;(*&!+"/%' "%6*++"/"##(@
"/-.'"94*-/%' "%%"'+O'26"('##("#*//#"%(-#%(@
(*&!"U#!&":O/#'"J#!'O("4%9*!'('4"/#O/%&"(,!"&(
1O'+#"/"##("/-.'O4*-/%'?N '$$-(%'*/"'>,'
/ '%'-4'R A'#O/(8'NN I -7' *!%'*'-
7!"&O'4"!"##("/-.'" *!('4'*#-7!"O!((-'&"('9*!@
9*!:' #O 'S"4"(' 'YF *##("/-.'"'"''
'%-"#"(/-.'"(("'NN -7' *'%-"#!!/"%'O/(4*'%
#!!/'O.-(("+"/%'#!!/"-&&!(-*/'&"'"(!-('"/'#O/7"
#"/"+"#"##("/-.'"' "1O//#"4'*26O-/"' N'
&-.'-.'S"%%' '*!'"+"##("/-.'"'9"'.-"/(.-%
-'&O4*("' '= 'O, 'Y)
5:--I'(O';*//"$"++"O%!/*(%"&#*'@
+-'5'(-%"#"("/-.'"'O('4O"&"#*'+-' '4'
NNO I('Q!O/%'"(%#"("/8.'#*!';-"/'"(."-&&#"%
&"('$!+#"('("/%4O((#*'"%#%(7"'#"('O#*/",!"('-&
O("O("/('#"($-#('"%#"("+4"(26-#('9
'O I(' "('!/('#-("/%',!O/#-&"!%
4'-/('('/'4&-' /"#"4!-(-&/"#"("*-.'O'
'6 7' (%O/%#"("/-.'#"("*8O/%O-/(-
&*7#' '4'RMR'&('/"4!"/%,!!-&('/"("(/%
(O.*&"&"!"(*!;,*/'O1O+-'O&'&"4'-O/%#"("#"(@
"/8.'"#"($!+#"(#"&O2*!'"%#"4"/("'(O
"(!"%#"'&O&"!"'/("+;&"' G '(
'#&$' '4'#$-:"'"% /
$'$- ? &D###@<O/@&O@("@+O/E' 2K
%-*/'#"##("/&O "'
@'@ ?'!
%' 'D###@<O/@O@(#'%"'2'4'"/#!/"2#K
#-&&"#".O/%'*!'*>'/*!(##("/&O,*/('9'##("/&O@
,O-(E'X'*'-"'6*'('#"(&O2"%"'NN-7' #&-."
#!!/'4-#7"' "##("/&O2"'/' "##&-."#"(
&O2"%("#"(4-#7("
'!J(' "("/&O2"'*!4-
'?' '4'#$-:"'"% *
\'H &'D###@<O/@&#@#-'E'3' %%#/"
&O&O-#"!'NN3' '"(("#!"/&O-#-'
@@@'?' '4'#$-:"'"%"!&O$#-'
$'^f &-& &>D###@<O/@/!-J'O'+' "((O%-*/'#"
1"//!-
'O I('U&&'26O((O-%J4*!"(*/'4-O(("%"+4('
"%4*!"#*//"#"("//!- '(*/'/".""!',!-%O/%8
4'"/*-%4&O-(-'-' '%@ - '=,'B'
4'A)'#O/(#
'?' '4'#$-:"'"%
H '"f'D###@<O/@/!-@-#'-#"E'"
"("// 8#4O"!!'(4"2%O2&"('-'/*!.'O!'4*!'&!-
$- 'D###@<O/@;!&@-#'O/4'*/*/*#2*++*
#O/(O/%-,!"E'9"'##("//!-"'%!'##("//!-"(''##(@
"!/-"'*/('##("//!84/('.*!('##("//!8"<'-&(
##("//!-"'4%%-"##("//!8O-('/*!(##("//!8-*/(5'9"
##("//!8O-5'9"'##("//!&"'O-N9"##("//!-"'O-(9
"//!-"'##("//!8*/(5,!"'9"##("//!-"',!"'*/O!'
##("//!8-*/(5,!"%9"##("/!8O(("5'##("//!8O/%5
##("//!8#'/'O'NN I #&-."#"'1"//!-'?*/'$-&(
.*!("+;'O((("+-&&"'$*-('-&+"##("//!-"O%'#"+"'
+"/$"%"$*%"'+4&O%%"*'(-.'MM'NN;(*&!@
+"'%O'&"2%!""##("//!-"'NNYI"##("//!8"'*
'6O(("1"/!!-'!!*!'O'9*!/(4*!'/*!(##(K
"//!8"'2*+%"'8#-(O-%4*!'(#7O8"'Q!!.*!@
-O-%4'"/#"&"2*/.'"%O'*+*!"'%"!"*/4O-"O!:'
/*!("("#"##(""//!8"' C '* 'C4
"%+"(+"("/26"+-/O%4*!'("#"("!/!8"'
:.9.'('&('/"26O/%-"/%O!%"'26O/(*/'
'!1
@'B ' '4'#$-:"'"%-%%%!4"5 ""8'#"/@
'4
$'$- & ' 'D###@<O/@/*'@76"!@&&-'
+*!-&&#"('O/'4'*/*/"#2*++"#O/(' +,5'/+'
O;O%%"*'7!"-&#"',!"&,!!!/
'?' '4'#$-:"'"%
"8#%?O* -'_#@<O/@'#-#'-#"E4O'%'4*((#
O'*!"##("!'O8#"
%' ? ?'G###@<O/%#@+O/E'+' 2K
%-*/'#"##("/'O8"'
V ?! 4
f H 'D##'cO/@'#@-#E'9"##("/'O8"'%!'
##("/!#8"('-&##('/'O8"*!'#"("/'O-"/*!(##("/@
'O8*/('.*!(##("/'O8"<'-&(##("/'O8"/%*!(##("/@
'O-"/%9"##("/'O8O-('/*!(##("*'O8-*/('9"##("/@
'O8O-9 9"##("/'O8"'O-'*!"##("/'O-"'O-'*!'
##("!'O%'O-5'9"'!"'O8"'O-"'*!'##("/'O-"'O-('*!'
##("/'O-'O%(5##("/'O8"'##("/'O8"<5,!*9"##("/K
'O8"',!*/*!(##("/'O8-*/(',!".*!(##("/'O8-<'
,!!-&(##("/'O8"/%9,!"9"##("/'O8O(("5##("/@
'O8O!%5##("/8O8#'.@O'#;O'O(("!/'"!*!'#"

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b ?'$Ee 4'#$-:"'"% 4
$- & 'D###@<O/@'!@+#'+#"E'4O'%'
"' '%O2%"!"##("/'6!+#"%4*!.O/%#-'"(*/
'&"
4 ? 'D###@<O/@'!@+#E'!'*' O-'"2"(K
("'S"'6/+"'"'"O!'%"+4('+1O#("/'6!+#"'D"
##("/'6!+"'5' ' "((#!#%"'('6!+#
'#$' '4'#$-:"'"%
%$- ? 'D###@<O/@'$-@&"@+O/E'I'&!
2%-*/'#"##("/'#&"'' H
%' M D###@<O/@'$-@&#E'P'*' O(("'!/'
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'O I(' "("/'4!&&#' '!
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6#8#H?,,#'#'9##@<OX@'4!@#'#"E'4O'%'"
#("/'*!#4O"&"'"4*('#"&O.*-:"%4O"&O*;O&"!'
5 6# ,>#%#H& D###@<O/@'*@+OH'('-/'
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'#$'
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1"/'*!"+"/%'NN "##("/'*!"' "(("#!#%"'
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+"6O7/%"U"(%'*4-"J'O "/' ' # 2' X I'#O/(
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"&' #"(!(*'2"&#'O&O$-/'-&(1O4"H,!%,!"2"%%2
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H 'D###@<O/@(*'@("@&#'O(8&&O;"*'
4'"/##"!:',!O/#&O(8&&O;",!-(!-%"(%+!"%%'>
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.:5E 5.9 23 +32 53 4&=2B28 20 + 4: 3 283B2 42825
32BB 0 23 828 :8 ; 8 4 58 95 8 .0 ' 0 7
' ' <B2 A20 23 - ## # ' 5 4 3 <+98
8:9E253 23 ; 29A 4\2BB2B
_B 0 ' Q44*M 5*3 *3 0 3 2/0 #
48253 34 428 <B3@9J'8 ?9'+:5J32 ; <8 8& 3 253 2 ;
< B38 42 8:5 28<B 3
3' ! ! ' Q4 '*M 5*3N*32* ; 5/0
.3 :5 42 428253 32B :9 42 82 428253 32B
' Q4 *M 5*3 *3"/0 5 ' 'LL " B2 .28K
82B &253 32 ; 2530 + ' <B2E253 :5' 5 52 <253 +2 42825
+232B 42 .2332 :< 5 :5' ' 82B ' 4 . +2 2 +2 42825K
3 32B 49 3B 3B2 B: .+5E +20 # ' .*(!-('-7#)'
-" ' E0 ' LL 58 95 93B2 82580 B2 .28828 +2
; + 42 3 32' ' <B: ; 25 42 ; & ' 4 8253 32' 5 4 3
?92 +2 . 2 428253 32' LL TU , ' # 8 ' 2 428253 32B0
<2B4B2 +28 <B @9J 80 +28 :< 5 :58 ?9' 5:98 253
3 253
- ' > ' 2 ; :3 283 882M 5:9E2 9 ; 8 + <+ 3
' G2 9.:9< 42 J2580 23@2' 52 4:932 < 8 ?9& + 52 8&
3 G+ 882 95 @:9B ' 82 428253 32B 42 ?92+?9&950 /@
' ' !75 '#
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' Q4 *M 5*3: *4 9 ' ' ' 32B +28
3: 28 428 +28 4&95 ; :9+ 5' 2 E253 R 53 .288 0 +2
; 295 2B 4 8253: +
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28/0 ' ' ; +2B .2 ?9' 3 3 253:B3 +' $92+
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428.254B2 +2 5 4 ?9& + 3 253 898<25490
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'"/2" "/%' " 2"(+*%("(% &0 +"+" , !!"/%' "/%*'@
' 3 +2B 23 3:B3 +2B ' :B3 +2B 283 +2 B ?9253 3 '423:B4B2
+ 82 4 3 3B 8*G 25 4&952 829+2 .=:82 ' 95' +0 952 K
.2+2 82 423:B3 +2' 53:B3 +2B 82 4 3 <+93:3 42 <+9
8 29B8 :=:828 ?9' 82 ; +253 23 82 3:B4253 +28 9528
89B +28 93B28 ' .28 .:B4:58 8:53 ; + 80 @2' 52 <:9B
B ' +28 4 8253:B3 +2B
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3' ' Q42*M 5*3B *E /0 ' ' N32B+28'
253B E280 +28 + 258 2 ; <+:R28 <:9B 889@2+3 B +28 5
; 9A 4 58 +2 3B E + 4&95 ; B .= +
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,@ ' Q4 *M 5*3B2* *8 ' 2 .'<B254
952 . 4 + 2 42E 53 ' :9 ! : 5:98 4 8253B2+ ?:58 @2
4 8253B2+ . 8/0 5' ' N32B 4&95 253B2+ .2 ; 253 ' +L 2
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- ' # ' O 8' 28 93B28 ?9 3B2 :9' . 5? 52B 80
<B'8 8&283B2 253B2 ; 28+ 8 23 253B2+ . 80 5:5 829 2
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3B2+ 2 8 8:98 &2882+20 ' ' $%
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,@ ' Q4 *M 5*E2*+:*< /0 5 ' ' 2
3 B2B .2 ?9' 25E2+:<<2' 5 4 825E2+:<< '+ ' <2549+2
H ' ' ' 5 E 3 R' ' .'
952 5 +:J 2 23 428 4 2B25.28 5 +:J928 6' .2+28
?9' 2A 83253 253B2 4 82 A:B3 +2B 23 4 3:B3 +2B' 8
25E2+:<<2B 89<<:82 952 25E2+:<<2 B22+20 23 ?92 :5
<253 +2B' E2+:<<2B 283 <+98 J 5 B + + 8& <<+ ?92
988' ' .2 ?9' 5&25E2+:<<2 ?92 ; :B +2 ; 253 :9 9
32+2.392+2 ; 253 4 E2+:<<2B 828 4228 4 E2+:<<2B
+ ' 89B .2 4&95 .R+ 54B2
- ' ' S 08' :93 .2 283 :3B: ' ' .2+ 6' ?9' 25
4:52 @9B 4 .3 :5' 42825E:+:<2B0 + 5 ' " ;7 ' C%
- ' (>3' " ' <B A20 23 -5 ! #
,@ ! ' Q4 *M 5*E2*5 * ; /0 5 ' 32B
+2 E25 5 // J' 32B .2?9 ' 25E25 ; 2' ' 8&2 :B. 42
42825E25 ; 2B +2 + 5J J2 ?9' E + 3 '3259
- ' 0 AE 08' $9& +8 52 <:9BB:53 283B2 ?9& '<2 52
2829E25 ; 2M 42 +2 B = 520 ' ' ' <7/ - '
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@ ' Q4 *M 5*E2B*J= /0 5 ' ' 2B ; 2
42 ; B 52' 3 .=23 952 E: +2 42 + ' E2BJ92 ' +
? 2+2 :5 E 3 2 < B 428 B G 58 :9 < B 952
J9 +2332
' ' ( ) ' <B A20 - ' 23 5 #/7
3 !*+ , ' Q4 *M *<2*B:*5 /0 5 ' N32B
+28 <2B:58
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B 52' 8 B ; 2B0 B23 B2B ?9 < J2
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+28 2BJ:38 4&95 .:?' LL 0 2B ; 2 42 E 3 B 5 B2' :9K
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6#88 8 , HH#! D#e@(M@<*@/ME %E " / / " #10K
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/' 1-0." "% "& 20' ;*/'&"(*/% ?"/' 2!-(-/#(5 "%
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Y O f(*!" #"((0&"" ;"! ' +" "%%"< &" "/'
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1#/" #%0/% #"((0/7&# &" ;0% %*!+0
D##@(0/@7&#E #*6" *!'# @
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f f D##@(#@26#' 26#"E 40"%
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7-/0& 4"/26" "% (" ##2*&*'" 0" /' 2-"& ; &0/%
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%*!9*!'(2'0-/#"' &" #"((#26"+"/% (.Y Y "
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&" +"/02" #!!/" $-/' 4'*260-/" ;QW
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Ơ 4'*/*/2-0%-*/' 8 +"% ! /' 022"/%7'0."
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$- D##@(#@26#' Ơ (8&&0;" 4'"/# 102@
2"/% 7'0." , !0/#&Ơ (8&&0;" , !- (!-% "(% +!"%%%"
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? "%%'" ("2 "((#26" ! /' #%0/7
(, !" 2" 40!8"' 4'#%'" , !- #"((#26" #0/(+0-(
*/%-/(- 0
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2&2&%" ' Y) "/%;"0!%#(, !" .*("04@
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+0-7' 0/(&0.-"-&&"((" %*!%" (&"(40"%-"(#!2*4(
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1 -7 "."/-"$'*-#' "% #!' */' +"
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"/' "(%0/% %*!%" 16!+-#-%# #"((#26#" $ 0 1
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? ! 4'#$-:"' 4*!" 0."2 /"
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2' 9A1' &8' Y' "."/0/%' +0&6"!'"!:' -&' +1"(%'
#"."/!'26"'' /^' X9E' ' = ' O/(' 1 '-"/%'##("'%',!"&'
#".-/%' +*4' "//!-&' + ' ' ' '*!"&' #"8-/ @9"'
O!' '#*-%' #/' 2'-+"' #"' +O' + '"T'-/' A '-'k
- "("2'"%('#"'(*/'2*"!'"%'#!'+-"/' *4%'#"'%*!%'
1!/-."'(' #"."/!(' 1"/%'"%-"/'-/' ' ! ' &"'
2'*-('%"'8*-' 46"$"60/%'!/'(!44 2"'/*!."O!' *-@
+#+"'#"'%*/'(0/7'#"."/-"'&"';*!''"0 ' O G'
/ ' ' -'.*!('#%"' '/#' .2-"!:' ' 6#07"/"'9"'.*!('
4&O-/(5' (-' .*!(' %"' #"."/"<'40"'$O-;&"((("4*!"(2*!'
,!-'*/%'-/%#'#%',!"'.*!('&"((;8"< '(*!$$'"<'.!"'9"'
.*!('+#4'-("' ' " '-:' "('+*-/#'"(' 4-'2*/@
(%O/2"('#".-"//"/%'"(("/%-"&&"(',!O/#' -&' (107-%"'#"'&O'
+*'%'#!!/'6*'*+"'%"&',!"' 60'&"('O '9 ' $%*'H'
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$ ' ' " ' O' X' S"' +"'2',8%#('7'"2'*!'
'"+0-/5'9"#".-"/0-(%"'4"'(*/407"#*/%'9"'&-(0-(&O'.-"
' 6'=**((' '-'NS !"#"."/"<@.*!(3'*1"(%@ @#-'
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/!"' %"&&"'26*("'*#'"(%@"&&"'$' NN I' O/('&"('46'O("('
-/%"''*70%-."('"%@'#!;-%O%-."('O.*-"' %"&' (*'%' %"&' '#@
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#'O'Q!"'("/%'#"."/!('.*(' ("'+"/%(3' ' .*!('-/$*'@
+"<' 40('2"' ,!"'9"'#".-"/#'O-') '1 ' 'NNQ!"'
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&"<@.*!('(!&.''3' -%"(@+*-'#*/"',!"E&"'"(*&!%-*/'.*!('
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9"' '2"('40'*&"(' 6'2"('4"2%O2&"' ,!"&&"' /"'$!%'40('
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%' & -#-@O@['-@%-@[HO#' 'UN i' "'+"'#"
7'O++O-'"'Q!-("'-[#-(%-/7!"' -7/"(#-O2'-%-,!"('
(-7/"(' ,!-' /1*/%' #1O!%' ;!%' ,!"' #1" +4"#-"' &O 2*/!'
'!(-*/' #"(' +*%(5' &"%(' (*!%' 2"'%O-/(' O22"/%(' -/('
1O22"/% 7'O."' "(% +-(' (!' *!' O#."';" 4*!" &"
#-(%-/7!"' #"' *!' 2*/9*/2&-!/5' %"&&"(' (*/% O!((-' &"('
7'O/#"(' &"%%'"(' *44*(B"(' O!:' 4"%-%"(' "%' &"(' -%O&-,!"('
44(B"(' O!:' &"%%'"(' #'*-%"(' *!' '*/%O-/"(' 9N *-/%('
#-O2'---,!"(' 4*-/%(' +-(' (!' 2"'%O-/"(&"%%'"(' #"' 1O&@
46O&-"%'O'O;" ,!-' */% ++"' $*'+"' "% /"' ("' #-(%-/@
7!"/%' ,!" 4O" 2"(' 4*-/%(' N d ' +"' #"' +B#"2--"'
-7/"(' #-02'-%-,!"(' (-7/"(' ,!-' #-(%--7!"/% ":O2%"@
-'"/% !/" +O&O#-" #"' %*!-"(&"(' O!%"(
M ?' %-'"%:4-.(-.'#-(%-/7!"'D.*8 & -Q E
V@ 'D#-@O@#9&@SE' 6' "'+"' #"' ;*%O@
/-,!"' %O+-/"(' #-O#"&46"(' #%O+-/"(' '#!/-"(' 4O"
&"!'($-&"%("/' #"!:' $O-(2"O!:' #7O!:
'M ?' ! '4'-&-:"' #"!:' "%' $' '"
%& % & 'D#-@O@#"&@$-'E'I' ' "'+"' #"' ;*%O@
/-,!"' &O(("' #!' (8(%;+"' #" -//# ,!-' 2*+4'"/#&"(
4&O/%"(B' 4&!(-"!'(#%O+-/"(' '#!/-"(' 4O" &O ;O(" "/'
#"!:' $O-(2"O!:' #-(%-12%(
!!' # *%' ! "
%' 1 'D#-@O@# @$-@[1E' 6' "'+"
#" ;*%O/-,!"' Q!-' O44O'%-"/% B' &O #-O#"&4&--"
?' ! "
? 'D#-@O@#B@+1E' X' X%' NN I' O/#"O!' #"
&O-/"' #"' $-& *!' #"' (*&"' "/'-2&-' #"' 4-"'"'-"(' ;'*@
#"'-"(' "%O!%' "(' *'/"'+"/%(' #*/%' &"(' (*!'"'O-/(' ("
2"-7/"/% %"' $'*/%' "' #-O##+"' 6O'&"+O7/"O.O-&
;!-% ;O/#"(' '%'-4&' #-O#H+"' #!' 4O4"' "(% (4'I
+*/%M #!/' 7&*;' "' #1!/"' 2'*-:' $#%@-& #O/(' 1#@
2&O%' #"' &O 7'O/#"!' (!4'"+"' */' 4'*4"' #-O#B+"
' 8'4"!%O%%O26"' '$ '-'Y' '&!-' +-% UB'
(%6"'J (!' &O %"&"' &"' #@O##+"' '*8O& "% &O $-% '"-/'
B O' 4&O2" #" O(%6-' ' 1 ' > '7' A'
"9*!"'!" ,!"(!" +*/'$'*/%' */' +-%' 2" #-O##+"' 7'
' ' O2&-O-"/% +"(' 26".'"!:' ;&O/2(' (*!('
%'"/%"#-O##+"(' "' 1'-/'R '#4*!("5-&!-' #*//"'
O."*(*/' #-O##+"' O$*-' ,!"' .*!(' ."/"<' #"' '"2"@
.*-' '.*--(@+#+"' -/' & '%.' & U9"9 2'*-(' #*//"'
.*%"' $'*/% 4'#%' B' +*/' #-O#;'/" /' #2-O%,!-' &"' '/#
'"(4"2%O;&"O!:' #-"!:' +#+"' -/' (&6'(' A' *-&[2"
"12&"' *!' ;O/#"O!' ,!-' 2"-/% &"(' %#%"' #"' +"' '"'(!"
(&"(' #2!((*/(' NN "'2&"' '**#' (!"' &O %#%"' #1!/' O-7&"
' I' "'+"' #"' #"<**&*7-"' "/'"' #"' &"4-#*4-#"(' #-7'@
/"(' ' "/'"' #"' +*&&!(,!"(' NN (4#2"' #1O'O-7/"' *'@
6-2!&O-'"' "% ##4'-+#"
F' 'O I(' /"' 4"%-%"-+O7"' #1*"' #"' % S"O/@
O4%-(%"' &",!"(' O!/' #-O#"+"' #"'-"' &O %"(%"'
' #O/(' '
!+#7)D ' ,7'4' A' NN:-I'(' "(%-"/((!;9"2%<
%1O4'"(%"/% #8O#"(+"(' &E"' 7&*-'" "% &*(' "% 2*!'*//"(
(!4'"(+"(' ' '9'
'#$' '*.2/2' "(407/' "%-%O&' '#!
&O%-/#-O#+O'#!'7'"2' #"f%*%'"-#%-.' 6"'
%' 6 O6# #' 'D#-@O@##@+#' +#"E' 6 "'+"
#"' /!+-(-/O%-,!"' Q!-' "(% ##2!'# #1!/' #-O##+"
H' ?' !
%' 'D#-@O7@/$@<1E' I 'NN$' "'+"'#"+#@
#"2&/"' */ /H((O/2"' ,!-' (1O2,!-"'%' 4O"' 1*;("'.O%-*/

#"((-7/"(' #-O7/*(%-,!"(' NN)I' "'+"' #16-(%*-'" /O%OI
'"&&"' 6'O("' #"(2'-4%-."' (!;(%O/%-"&&"' "% 2*/2-("'
'"/$"'+O/% &"(' 4'-/2-4O!' 2O'O2%-"(' #1!/' 7"/"'
#1!/'" "(4#2"' "%2
! #&*%' *8' " C :'7'"2' -# .*:/5
'D#-@O7@/*@(&-[E' ' "'+"' #"' +#@
#"2-/"' '% #" '"2*--/O%%'" &"(' +O&O#-"(' 4O"' &"'!('
(8+4%#+"(' "% #"' &"(' #-(%-/7!"' &"(' !/"(' #"(' O!%'"('
"' #-O7/*(%-2' #- #'"/&-"&' "' #-O7/*(%-2' #"' 2"%%%"
+O&O#-"
' ?' *8' + (/*%-
Q 'D#-@O7@/*@(%-@[1E' 6' "'+"' #"
+##"2-/"' Q!-' ("% B' '"2*//O-%'" -7/"(' #-O7/*(@
&-,!"(' (-7/"(' #1O4'#(' &"(,--"&(' */' 4"!% #%O;&-" &O
/O%!'"' #1!/' +O&O#-"' *!' '"2*//O-%'" 1#%O% O2%!"('
#!' +O&O#"' "(' (-7/"(' #-O7/*(%-,!"(' #"' &O 4/"!+*@
/-"' (*/% &O +O%-&#/ "% &"' 'B "' 2'#4-%O/%' NN !;(%O/%-@
."'+"/%' "(' #-O7/*(%-,!"(' #"' &O 4/"!+*/-"' -"!:'
/' 2"' #"'/-"' "'/(
S' # $ ' & 4/L .7:' #"' M--' "% F/ /1+' 2 /@
31+2&';/,F' @
Q % D#-@O7@/*@(%-@[#E'/' ' "'+"
#" +##"2-/"' "2*//O-%'" 4O" &"(' (-7/"(' #-O7/*(%-2
,!"(' !/" +O&O#-"' "(' +##"2-/(' #-O7/*(%-,!"/%
O!9*!'#6!-O."2 !/" 7'O/#" (#'"&#' ;"O!2*!4'#"+OK
&O#-"(' 4*!"' &"(,(*!"' &O22"(' */' /1O.O-% O1%'"$*-(,!"' #"(
4'*;O-&-%#('NN ;(*&!+"/% -"/'+O&#-O7/*(%-,!"'
' #-O7/*(%-,!"' / ' I' -'" #-O7/*(%-,!#' O
4/"!+*/-" "(' #-O7/*(%-,!"' $O2-&"' +"/%
' ?' *8' /& &Q
$'6 O-, 7&?#' D#-@O@7*@+ @%'1E' # ' "'+"
#" 468(-,!"' 44O'"-& 4*!"' 2*+4O'"' &"(2*/#!2%-@'
;-&--#(' #&"2%-,!"(' #-."'(' (!;(%O/2"(
%#8%%.' 2*/##-' "% > 9' +"(%-"
%' & ?$- 'D#-@O@7*@+#@%'-E'I' ' *+4O@
'O-(*/' #"(' 2*/#!2%-;-&-%#(' #&"2%-,!"(
%' ?$- &Q 'D#-@OI7*@+#@%'-@[1E' 6' Q!-'
O '044*'% B' &O #-O7*+#%'-"
' ' D#-@O@7*@-g&' /O 1E' 6'
'TV' "'+"'#"7#*+#%'-"'Q!-.O#1!/'O/7&"B'!/'O!%"'
#O/(' !/"'$-7!"' '"2&-&-7/"' -7/"' #-O7*/O&"' NN I'
O#-O7*/O&"' &-7/"' +"/#"' #1!/'O/7&"' #1!/"'$-7!"
,!"&2*4,!"' B' !/' #"(' O/7&"(' /*/@H9O2"/%('-"'
!/"' #-O7*/O&"' *!(' 4&-"'*/(' 4O"' &O #-O7*/O&(' &"(
#"!:' +*-%-#(' #!' 2O"#"' 9'-' ' H+' ' NN /
#-O7*/O&"' *;-,!"+"/%' NN YI' #' "'+"' #"' +O@
/#7"' -O7*/O& #" #'*-%' &"' 4-"#' #'*-%"' #".O/% "% &"'
4-"# 7O!26"' #"' #2'-#"' -O7*/O& 7O!26"' &"' 4-"#
7O!26"' #"' #".O/% "% &"' 4-"#' #'*-%"' #"'-#"
'-!I(' "' d ' &-7/"' #8O7*/O&' (-2*+'
*/' &"' D-O9 4!"% 4&!(4'"/#'"' 4'#(' C ",'
#$' O%' ' 7'"2' 4 /' :' #"
#8' '4, 'O/7&"' D2*+4' @
? 'D#-@O@7*@/O@&"@+O/E' /' /'
#-O7*/O&"
'#$' ! '"%&"'(!$$-:"
%' ?S& 'D#-@O@7'O@+1E' ' +9--I' #&-/#O@
%-*/' "#-O7'O++"' #!' %84"' #"(O/-+O!:' ."'%#';'#(
-7' #-O7'O++"' 16-(%*-'" #"' 16! +O/-%#
NN d "'+"' #"' 7#*+#%'-" O/2-"//"' -7!' *!' 2*/K
(%'!2%-*/' #"' &-7/"(' #"(%-/#"(' B' &O##++*(%'O%-*/' #1!/"
4'*4*(-%-*/' NNYI' "'+"' #"+!(-,!"O&O2*+4*'%' #1%O-%
#O/(' &O +!(-,!"' O/2-"//"' &O %O;&"' *!' #"7!"' "% &"(16%
4'#("/%#O'#/(' ' I' NN #"%-"'(' 7#/#' #"(' 1#(' &!
#!/' (8%#+"' *!' *'#O/' 7-"(' 2*!(-(%O/%' "/ ' 1#@
#26"&-"' "' 7O++"' "' 2&O-/.-"' "' O/ 2O
+, 'O!' +*% 'N d "'+"' #"' <**&*7-"' "
"/'" #"' 4*(*/' #"' &O(' 4*(-%-*/' #"(' #"' 2!/#-@'
? -O84O44O' #" 9"O' "% 84#4(-.'%'O2"'
D.*8' Q E
V@ ? 'D#-@O@7'O@SE' ' "'+"' #"' #"(@
(-/ I' /(%' !+"/%' (".O/% B' %'O/(4*'%"!' 4O4-'"
&O '"4'#("/%O%-*/' #"(' *;9"%(' (O/(' 2**/O-$"' &"' #"(' I'
(-/' "% &O 4"'(4"2%-."
'#$' 'O' "% 4X3(%.' #"((-/"'
$' & && 'D#-@O@7'O@$-"E' ' ' "% #"' #"((-I'
/"'"O." 2' &"' #-O7'O46"
%' Q 'D#-@O@7'O@$&@[1E' 6' Q!-' O' O4K
4*"% B' &O #-O7'O4&--"
%' -&& 'D#-@O@7'O@$-@$E'-'+' *'&"' #"'
'*26"' (26-(%"'!(' #*/% */' $O-% #"(' 2'O8'/(B' #"((-/
'#$' --' "% 84-4(-.' #"((-/"'
b@ 'D#-@O@7'#@#1E' ' "'+"'#"46O'I'
+O#"' /2-"/' /*+' #"' &O (2O++*/B"
$' *'"!4--O/' #' 4 , '#' O:4! -*.'
4"%-%" -O'+' '#-+-/!&-$#"' fP:4!5 &" 'B%O/%
O-/(' #-%' 4O'2"' ,!*/' 4' 4O'O-% &O(2O++*/"' "' ?
"/$"' +O/% &"' (!"' ':4'-+' '#!' * / /, ' *
'#O/(' !/' *-/7 ,!*/' $O-(O-% 2!-'" (*!(' &"(' 22/@
#"' 2&-O-+-"(
b@ 'D#-@B@'1E' 6' "'+"' #"' +##"2-/"' 8@
*/8+"' 4"/' !(-%# #1#4&-#+#"' -#.'" #-O-'"
?' O%' ' 9*!'/O&-"' #" '9*!'

$' = 'D#-@O@[#@/1E' I' -X' *8' " #
'D#-@ %@&#@[%E < PX' O'&"# !/"2*/%'#"
#!/' 4O8(' #%' /#!' /" #-& #'O/% #"(' 4O'&"(' .*-(-!(
,!"4O"' #"(26O/7"+"/%(4"!'2*/(-##'O;&"(' ,!-/1"+@
4#";"/%4O(,!"' #"' #-O&"2%"' B' #-O&"2%"' */' /"' ("2*+@
4'"--/"' "% 2*+4*'%O/% !/" 2*+4-#%"' 2!&%!"' &-%%#@
'O-'"' O '#2" O.O-& ,!O%"' #-O&"2%"' 4'-/2-4O!:5
1-*/-"/' 1O%%-,!"' &" #*'-"/' "& 1#*&-"/' #"#'"
O #2'-% (*/' ;-(&*-"/' "/' -*/-"/5 6!28#-#"' "/' O%-I
,!"' 1O/2-"/' $'O/,O&(O.O-& 4&!(-"!'(' #-O&"2%"(' "&"
/*'+O/#' &"' 4-2O'#' &"' ;*!'7!%7--"(%' /' O' '"+O'@
,--#,!!-% '-(%*/-,!"' 4*((#O-% (-' 4O'$O-%"+"/%!"(
&"(' #-O&"2%"(' #"' &O &O/7!"' 7' '"2,!"' ,!-' $!'"+O-/%"/%
2*++"' O!%O/%' #"' &O/7O7"(' #-& #'"/%(' ,!-&4'*/*/2"
,O%(' (' O' "#' ("&*/' &O' &O/7!"' 4O'&"' 4&O'"' #"' 2"!-'
4&O-O-#-O-"/% #"' #'"/%' #"' #"' 2"' &O/7!"' #"'2"!-
,!-' 4&O-O-#-O-"/% #"' /"' #%' 2"' #"/2"!' 4O'-"'
4&O-O-#-O-"/% "-#"' ;' #"' #-O&"2%"' #"' 2"' 4'O/2-"&' +O%-"-
/ '%' O' 4' YR '#O/(' ' #-O&"2%"' .#I'
/-%-"/"/' (%#*! ' "% #7"' 2*+"' !/' (*!$%] O7'#O;&"'
' / 'B' 1-%O--"/' "(%&O(' "!&"' &O/7!"'
#"' 1 !'*4" #*/%' &"(' #-O&"2%"(' #-%$#'"/%(' O-"/% !/'
7#/-"' B'4O'%-/' 1' :.-' 9N ;!(-."+"/%' O/7!"'
1"(%' !/'.";.-(-;&"' 21"(%' !/"' &O/7!"' #"' $"!',!-
4O'&"' %*!(' &"(' #-O&"2%"(' #"' &O %"''
Y
? -O&"2%"' O#%# #O6*'# $#+-+/' (!-.O/%&"
7"/"' ,!"2"' +"%O #O/(' &"' 7'"' #-& -&"' (%-%--#5 "%
/' /" .-%O O/' 4*O4' 4*!' 1O-4O/' &O-(("' &#/7!-&
'!/5 "(' #-O&"2%"(' #!' &O/7O7"' 2"%%-' !' #%O- O%@
$'"!("' 9' ' '&/ " " D##' #" AMAE'
!(' .!(' -/#%7/"<#!' #"' *O-("' 2*+4O'O/@
("<@.*!(' 4O("(*' 2!' 2O'O%%#"' "% (O #-O&"2%"' 3' "
= '#' =
X' $ ' ' O/% ,!"' #O/(' !/'
4O8(' -&' /"' $*'+"' 4O("' #"' 2+' "' O!%*!' #"' 2"
2"/%'"' !/" &O/7!"' 2*++"' !/' ,!-' (*-&O&"' #O/("'
"/'%"' (*/ 2' 4O"' #" 4O8(' ("' +*+"' %O(' #-O&"2%"(' 25
/' .-% 4O" B , '"(' %*!("(' &O/7!"(' &"(
#-O&"2%"(' #'#+"'-.H' #"(' &O/7!"' 7#/#'O&"' "% $O-% "(%
,!"' &O &O/7!"' 7#/#'O&"' 7-/2-4O!' 4-"(' ("(' #-O&"2%"(
O'-.#4O"' !/"2-'2*/(%O/2"' ,!"' %2*/.+"/%' *' "(%
(*%%' !/' O!' &O/7!"' 2-."' "' #&O(' "#' ("' O/"'
%#+' O!:' "' #-O&"2%"(' !((-' &O/7!"' #"' 2"%%' #'O#/
/#'O&"' ("' '"' -"' #-O&"2%"(' #"' ##26*' #"!' 4'"+-@
4-/"' "' 4'*/*/2-"' "'-%"' 2"' !/"' &O/7!"' .' !/"/#"
."'//"' 2"' 4O8(' #"' 4O'&O/% 2"' 7!"(' 2*!' !/' ("
#O/(' &"(' 4O8(' &O4'*.-/2"' 2"' ("' &O/7!"' #"' (,!-' "
(*/%' &O(' "' #-O&"2%"(' +*/%' O!' 4O8(' ,!-' &O/7!"'
4O'&"' &O/7!"' &O/7!"' 1"/#O-%' &"' #-O&"2%"(' 1O
#"(*/' 4'*' $'O/,O-("'
? "%I(2' #*' %O[#8< .' 4O'&"' #"' '
'O(8(%.' #' 1O'D.*8' @
& 'D#-@O@ B@[%-@(--/' (-#@/1E
' ' "&!-' 2"&&"' ,!-' 2!&%-." ' &O '-O9"2%-,!"'
,!-' 'O-(*//"' 1(!-.O/%"' /' 6O;-' #-O&"2%"(' "%
2-"/"(' ' *+'% #"' *2'O%' 2*++"' #-O&"2%"' +@
+!/' 4O8' #"' 4O8' 4O'&O/%"'
7O' 26"' &"' #-O&"2%"(' "' #-O&"2%"'
O.&-' 4O'&O/% ' ' "C" ' #'I'
&' "2%%2-"/' "/%'/-/' &"' /O%-*/' 7!-' #"(
"' ' : "' 5' -"&&"' O.O-& #%#' !/' 4"!'#-OI
&"'2%%2-"//"' /19-'O-%"' &"' 4*-/% ' V
' O ' '::%'
' 'O I9' 1"(2'-&!'"' &-' $-(%O4' /#'"' 4@
4*("' O!' "' $-'*!' "% 2-"!"' &' +*/%' 4&!:' 1&-' #-'
#-O&"2%"(' ,!-' O-/% 4'"' 3 ' ' '
+X' #O/(' NN:-I' ' "%'O-% #-O&"2%"' 2-"/%' "%
#"' !(O7"' #"' 4'*4*(-%-*/' 4'-/2-4O&"' *!' ("
' A
Q ?' ! * +, '
Q 'D#-@O@ B@[&-@[^' ' 6 #9' Q!-' O
'044*'%' B' O%#"' 'O-(*/' 2*++"' "(4'-' 4O"
#-O&"2%-,!"(' NN F #' ' O/(1O/2%' 46-&*(' 4O(
O'7!+"/%O%-*/' #-O&"2%"' 4O'&O(' c#' /' &-#
,!-' "/' "(% #%' 1-/.' "/&"' ' #-O;&-(*/' &O #"(
1-++"' ,!O%' #"(' #-%"' 2'*/%"' 1"2%"' H' 4O' 2%-%
4#'-"/' "/' (/-(;' #!' +!.' "/' +"' /&!' NN 'O4'#(
%*/' &O #-O&"2%-,!"' (-7/-$O-% 26*(-(2"(' #-O&"2%"' !'
"+4&-&%' 2"++"' ##%' #-!/' "(%-&-O(' 2%' 2-"'
,!"' &"' 4'*/' +"+"' #"' 2"2*+"' &"%"' 2-!'@
/-%' (' "(' #%' '#-O &"' 2*/' #!/"' &&O(O
%-4 2-&# B' 1!/-%' &O (2-"/2"' #"' &"(' 2-%"
/' (*-%-%' &"' #-O&"2%"' !"(' *!/' .%'!"O/#@
'O&' O' #"' #-(2!(("' O!' 4O8(' ,!"' /'#"'
&' ("(' 2*/2"/%'"'
'8*H' ' C '&**-*' O &*K
7-,!"' (*/(' &O "*//O-((O/2"' #"' 4*'#"' 4O"' &"(' ,!-"
-/%-&-7/"' 2"/%"' ##2*!.' ' ' 2*/%O2%"' &O .#'-%#
7'O++O-'"' #"' 4O'&"' *!' 4O'&"' *!' 4*-&*'"' 4*!'
26O/7"' 4O'&"' &"(' 4O8(' ,!' ' ("-&-/4*!'4O8(
26O/7"' &"' #"' "' #"' 4*'O*' #-O&"2%"' #"' 4O'
4*'"#!(' #"' &O ' #-O&"2%"' 4*!' &O #-O&"2%"' 4*'
'"((*%' !!' !/"' #-O&"2%"' #"' ' &O $O-%' 4&!(%

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/ "-'$-ʼ D#-I0@$O@/ @-@%ME' I' ' '*4'-#%# , !1**% "P2*'4(# %'" #-0460/"('
' (.-I'(' O#-0$O/&' *!'%'0/(40'"/2" /*!(#///" ;-"/' é2*//*-(%'" , !" &O 4&!(7'0/# 40'% #" (*/' "(("/2" /1"(%0!%'"26*(" , !" #" 1"O! ' &' B
'E $ ' ! " ' "% &O %"'+-/0-(*/' %$#' , !-' #%O/% %*!%" &O%-/"' (1044&-, !" O(("< +O& 6 !/' +*% 7'"2
%' & & 9'' 'D#-HO@$O@/-@4#@/1E' 6' "'/%" &"' <**&*7-"' !-O #"(O-&"(%'O/(40'"/%"(
' f ?' ! " ' "% &" &O%-/' " ' O-&"
\' ?f ' D#-@O@$O@/*@+#@%'1E' (' P%' "'+" #" 468(-, !" 440'"-& 4*!"044'#2-"' &"(.OK '-O%-*/(-&" #-0460/"-%-' #" 10&+*(46#'"
' M ' " ") ' "% ' +"(!'"'
' ? & ?$- ' D#-@O@$O@/*@-/#@%'-"E' I' ' ?"(!'"#"&O #-04&-O/#-&#
' + /- ?$- &Q ' D#-@ @$O@/*@+#@%'-@[1E' 6' !-O '044*'% # &O #-0460/*+#%'-"
$' = ' D#-@O@$O@/*@'O@+OE' O' +' O;&"O!' #1!/" .-&&" *!' #1!/' 408('"4'#("/&# "/' 4"'K (4"2%-." "% 2*/ ."/O;&' +"/% #2&O-'#
' f ?' O " ' "& B4X4 O' . !"
'/- && ? 'D#-@O@$#@/-[E'*!' & O D#-@ O@$#@/-[(1E' ' "'+" #" 460'+O"-"' &"2%!O-'"
V #'O(%-, --" #*/-&O(!;(%O/2" O2&-.""(% &O(20++*!#"
' ' -#'"%$ %.-a'#O%%"'##O!(", !"-O4!&4"
#"#O%-"("/'$O-% &O ;O("
6' % '6 ' 'D#-@O@$*@'1E' ' ' -7!'"#"'6#%*'-@ , !"*# *' '#4#&" !' +*% #"9# "+4-*8# "/'&!-#*/@ /O/% !/" **! ."&&/' !/O/2" #O(-7/-$&2O%-*/
' ?' -O%4*4#' #-& #'"/!"' #" #-#' "% $"4"-.' 4*'%"'
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B)

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O@ ' D#-<1@! -%5' 4*! " &O' 4'*/*/2-O%-*/' #! ' % #O/(' 6!-%' . *8"< ' @' 6' , '* ' #"(' #"! : ' 7"/' '"(' *+ ; '" , ! -' (" 2*+4*("#"#-: ' "% 6!-%' ' "#-% 4*! " #-: @; ! -%-6+" ' *! -(#-: @6!-%' O7" #-: @ 6!-%' /' #2'-% #!*'#-/O-'" *! -(' O ' &" '#! ' +*-(' ' /' 2" ("/(' -& (" 2*+4*'%" 2*+ + ' ! /' (! ; (%O/%-$ +O(2! &-/' " #-: @6! -% #! ' +*-(' $N "'%*" #" %8K 4*7'O46-2' /' #-: *6! -%' $*' +O% #! ! /' &-. '" #O/(' (, ! "& &O' $"! -&&" ' 4&-#" "/' #-: @6! -% 40'%-"(' $*' + " %'"/%"(-: ' 4O7"(' ' (1-/#-, ! " *'#-/O9'" + "/% 40" -/@ B
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' O I' (' & #-(" ! -%+" O/&! ' -&*(-" ' [-' &*'"(' "/' S"' ! (O&" + ' "7/O#' < ')
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#"'%O/%' #1O! %' "(' -+4#%('*/' " ' "! : ' 40' ! %' (-' #! ' , !1*/' /1*(O' 40(' 1" : -7" ' O. "*' '-7! " ! '5' &" 7*! . "' '/" + " /%' /1" /' ' "%-'O' 40(' . -/7%@2-/ , ' + -&&-*/(' O/ / ! "&(' ' , ! O@ 'O/%" $'O/2(' &" +O'2' 9 ' = , '$$3 ' Y ' NNYd' #' ' "' + " #" + ! (-, ! " ' /%"' . O&&" #")' #"7'#('#-O%*@ / - , ! "(' *! ' #1 ! /" "% #1 ! /" %-"'2"
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&O@ &$-? ' D#-<1@/" ! ! . -M@ + 1E' 6' , ' *+ ; '" *'#-/O& #" #-: @/" ! $' "#-: @/" ! H +" / ! @ + ; '* ' #' ' /#-: @/" ! . -; + " 26" , ! " 40'%-" #! ! /' %*! % #-. -(# "/' #-: @/" ! $' 40'%-"(' 70%"(' NN ' ' "' + " #" + ! (-, ! " "% #1O2*! (%-, ! " O' #-: @6! & + "/*%" O4' (' ! / ' 4'" + - '" ' "1"(%@ @#-'" &O' #*! ; &" *2%O. "' #" &O' , ! -/%" ' /" 2*'#" (*/*'" (" #-. -(" (4*/%O/ + "/% "/' (-: ' 40'%-"(' 70&"(' "% $O-% "/%"/#'" &O' #-: @/" ! @ . - + " #" &O' /*%"' $*/-%*+ " /%O&"
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&c ' D#-@<"@/- E' *! ' c ' D#-@< @/- E' ' ' ! %' ' "$*-(' 26"$' #! ! /" #-<O-/" *! ' 4*-/%%*/' #! ! /' , !O%'*' ' #" "(' #-<O-/" ' O'-(' (' #-<"@ /-"' ' (' #"(' 2"/%-/-"' (' $! ! /' %*(' O(%-"-/%' ' #" (' #" . *-' O! %' O&-' #" -(-"' 7 ' / ' A* , ' M)
' O I' (' US"O/' 8*/J' *'#*//O' ("2"%" + "/% ' %*/(' &"(' 204-%O-/"(' #"(' ; &O/2(' 2604" '*/(' ' O! : ' #"2"/-"' (' "%' &"! "' #-% ' ' -- ' -- ' RY
' # $ ' ! 7 ' ; *! '7! -7' 7 ' 4'*. "/2' 7 ' O/2' 2O%O&'
% 6S#? "' D#9 @'-#E' ' ' *+'O'O; "' #! ! /" 2*! '(" ' 26" . O&' *6' 1O#'"((" 2*/(-(%" ' &O/2"' "/' 1O-" ' "%' 'O%%'O4" " ! /" (*'%"' #" 9O. "&*% *! ' ; %*/' /*+ + ' O! ((-' #9 '-#' ' 1" : "'2-2* #! #9 '-%&' , ! -' "-: -7"' ; "O! 2*! 4' #! O#'"(("' ("% #! ! /' 7'O/# ! (O7" "/' ' ! @ , ! -" "% $O-% "(("/%-"&&" + "/% 40'%-" #" -1 #! 2O%-*/' + -&-%O-'"
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@ @ ' D# @& @' E' /2-"' %"' + " #" + ! (-, ! " 40' ! ! /' "/(' #" (-7/O-' (' %O-%' 2*+ + " 2" , ! -' 4"/%"%(' $*/" (% -7/2 '%O-/' ' D#*E' ' ' *+ ' 40" &", ! "' &"(' %O&-' / (' #1O@ ; *'#' "% 04' ! /' ' ! " ' ' ; *-'"(' , ! -' ("/(' "/'(-%"' ! -%' ("' ("(' #" ; ! %' "/ 26"%"(' "% ' ' ("' ("(' ("' ("(' #-(' #" #" 2*-(-/"' 260/%' "(' #*' /1 %O-"/% 40(' ; -"' +O' , ! ' (' NN&, ' " , ' "(' #*
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' *' S" . *1#'O-(, ! ' "(' . +1O' 6"! ! "(' (" ' #*2-&' ' . *-1 ' - ' & ' ' ; ! ; (%O/%-. " + "/% &"(' -%"'O%-*/' ' (' #*2-&"(' "/' 4'*-' " 2*/%-#' "(' ! /' 2"' %O-/' (! ; (%O/%-. " + "/%' O! -' 4'*-*' -/' "' %*/' #*2-&"' ' , !O%'*' O! %' #"(' *! 4' "/' &O' 4*(-%-*/' O! %"! ' #" -/%"' . -' "' "/' #*2-&"' (' ' "% , ! -' &O%-/' , ! -' "(%' #"(' "% *! #" O! %' #" 2*' (' #*2-&"
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' 'D#*@#!' #!"E' 6' NN d Q!-' "% ;-"/
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/#'0&' #*//#" #0/(' !/' *!.'07" &-%%H'0-'"' 2B' ,!-'
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b4"'(*//07"(5 '%' (!;(-#-0-'"+"/%' !0''0/7"+"/%'
&0 #-(4*(-%-*/' #!' $*/#' 4'-/2-40&' 0 #*//#" #0/(' &"
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' f ?' !
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;!"' (!44*("'5 %*!#*//"'4*!'' .*!&*-"$0-'" 40(K
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/-'5 GY!044*'%" 4'#("/%'"5 I #*//"' "/' 40'@
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[illegible]

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#*-7%(';',!"&,!! /'&"$'044""(!'&"(#*-7%('"%$-7'
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5 39B2' 5 4:9G+2 B 5J 42 .:+:5528' I L .32 4:9G+20
.32 3 25 429A 2A2 ;<+ B28' 5 4 3 25 32B ;28 4'
< + 8 + 283 3 4:9G+2 253B2 +28 < B3 28' L :9G+2
+:9 80 < 2.2 4&:B E + 53 429A +:9 8' :9G+2 +2.3+
+3B20 93 ++2 .:5325 53 429A =2.3:+3B28' +L :9G+2
42. +3B20 ;289B2' ?9' .:53 253 952 :8 93 53 ?92 /Wb
42. +3B2' 5 4 3 42 ; ;2 4:9G+2 =:882 9 D+02B ;2
42 @9B 8<B9425.2' :9G+2 4B: 30 4B: 3 < R ' <:9B4
93 4&25B2J 83B2 ;253 42 .2B3 58 .328 4 58 +28
+ 8 42+' +:' ' :9G+2 4 . ;20 82.:54 4 . ;2 3W b
G+ ' <:9B 428 G28: 58 32 ;<:B B28 49 G94J23 IL 2B ;2 6
42 JB ; ; B2' 233B2 4:9G+20 +23+B2 ?9' 283 .: ;<:*
8 2 42 429A 93B280 .: ; ;2 W0 ;0 :9 ?9' + E +29B
42 429A 93B280 .: ; ;2 MB ?9' 82 <B:5:522 2: ; 20 b
.8' 2B ;2 42 + 58?92523' :9G+2 . B320 .2++8 ? ;' 6U
283 4 @ ' E2592 429A :8' IL J' >:92B 89B . B32 Q+:96"
G+20 E: B 95 E 53 J2 ?92 +28 93B28 5&G +3 < 83 " ,6
' +' E29B 428 ; 5 83B280 @:92 89B . B32 4:8 =+2' D'
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23 +28 <83 +8 82 8:53 .:5E2B 8 25 < 3 >280 8:3' 6
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N 0!' #"' &O '"-/"'#" */7'-"' /*+'#*//#' &- 10&2**@
&0%' #"' '*+0'-/' NN 0!' '*!-&&#"' &O +##+"' , !"' 1"0!'
$"'"#"' .*8"<' 0!' /!+-'*' -' NN 0!' ("2*/#"' 02-#"
/-%'-, !"' 0$'0-;&-5' ("' #-%' 0!((-' #!!/"' &"((-."' 20!(%-@
, !"'#"' 4*%0(("'*/'#"' (*!#"' 2*//!"' "/2*'"' G(*!Y &"
/*+' #"' &"((-."' #"(' (0.*/-&%"' (' "%' #*/%' ("' ("'.'"/%
&"(' 4"-/%"' (' NN 0!' ("#0%-."' ' &-, !"!"' 2*+4*(;"'
#!0+ +*/-0, !"&-, !-#"' #!0&2**&' 20+46'#' #"' ("&' +0@
'-/' "%' #!"0!'2*++!/"' NN 0!' (4-'-%"!'("' ' &-, !"!"'
*;%"/!"' "/' #-@(%-&&0/%' #" 10&2**&' (!"' #"(' (!;(%0/K
2"(' .#7#&0&"(')' 4'-/2-4"(' .*&0%-&(' 1"0!' (4-'-%!"!(""
("' /*++"' 0!9*!'#%+-' 0&2**&0%' NN 0!' (!&$!"!("
#-((*&!%-*/'#"' (!&$!'"'#"' (*#-!+' 2'-(%0&-(;'#"' 20'K
;*/0%"' #"' $*!#"' 2'-(%0&--(H' "%' #"' 26&*'!'"' #"' (*K
#-!+' $$ 0!@#"@.-"' 0&&"'+0/#"' /*+' #!!/'%';(@'*'%'
4!'70%-'' ' 0!' .!&/ '0-'"' #0!' 0'*+0%-, !"' "+K
4&*8"'" 40"&"' .!&70-'"' #0/('&"('2*!4('"%' 2*/%!(-*/('
d 0!' #!0/7"' 0/2-"//"' 0!' 0'*+0%-, !"' 0/0K
&*7!"' -% 1"0!'#"' '*("' *!' [' 2"&&"' #"' Q"!"#!*'0/7"'
S'&O +0-/'#'*-%"' 4'#(' #"' 10!%"%' U-&' (107-%'#!!/'; 04@
% +"J' -&' 8' 080-%' !/"' %0;&"' (!"' &0, !"&&"' #%0-"/%
#"!:' 20''"0!:'#"' #'04' #1*' ' 0."*' !/' 7'0/#' .0("
#1"0!' #10/7"' ' = ' ' 0 ' 9!-/'%"%!'
' BBd 0!:' "%' $*' %(' .*8' 4* $-'' NN '*."';"('
-1"0!' "(%' "/%'#"' #0/(' ("(' (*!&-"'(' 40"' &"' 2*&&"%' #"
(*/' 4*!'4*-/%' ("#-%' 40"'!/"' +#260/%"' 4&0-(0/%"@
&-"' ' #!!/"' 4"'(*//"' , !-' (1"(%' /*8#"' NN -' *4' 1"/@
80-%' [' %O '-.-"'"' -&' /18' %'!."'0-%' 4*-/%' #!"0!'
("' #-%' #!!/' ;*++"' +0&;0;-&"' , !-' /"' (0&%' 40("%'*!."'
#"' ("26*("(' &"(' 4&!(' 2*++!/'("' NN 0!' , !-' #*'%' 20@
'02%;'"' (*!'/*-("%'#*!2"'"!:' &' /18' 0' 4&"' "0!' , !"
1"0!' , !-' #*'%@ &' /1"(%' 2*++"'*/'#-%' 4-'"' "0!' , !"
1"0!' , !-' #*'%' 9 N 0/%' .0'&0' 2'!2;"'
[' 1"0!' .*8'
' 0!:' "(%'!/'4&!'-"&2* "2%-$' 2*++"'0-'('
2-"!:' !0/#' */'#-%' ("'4"'#"' (*!('&"("0!:' 4['-"
#0/('&"("0!:'&"("0!:' #0/('2"('46'0("('/1-/#-, !"/%'
40('4&!(-"!'(' "0!:' +0-(' !/"' 2*&&"2%-*/'*!' , !0/%-%&
-/#-.-(" ' *!%"$*-(' "0!' 0'0!((-' !/' 4-!'-"&
, !-' /1"(%' 40(' 2*&&"2%-$ 910-' ;!'#"(' "0!:'#"' -268'"%
#"' 40' 21"(%@[@#-'"#"' 1"0!' #"' -268'"%'#"' 1"0!'#"'
405 &"(' "0!:'#1 '21"-&' "%' #"' '"/"&&"' 21"(%@[@#-'"
1"0!' #1 '21"-&' "%' 1"0!' #"' '"/"&&"
' ' 0!' (' (19&' 0' "/' 0'"' &0'"2-/' 0+"/#['
-#%' U, !1-&' 0-&&"J' [' 1"g"' U[' 1[4'"!."' #"' 1"0!J' =
'2, ' A' ' .0&' 4'*$*/#' "%' &"(' "g"(' 2*!'0/%'
' '< '2::.-' (("/%'#"' +"' .-"//"/%'0("g"(' ;"/"&(@
#*/""(' 1' 2-:::.--' %' ' "."(,!"' &"(' "g"(' ;"/"&(@
("/%' 1'22!%.-!' NN:/!'(' 1[-7!"' #!'2!"'&!-' "(%'"("
"&('U8"!: ' +*/%["' < '4' 'Q!"' 1-0."' ("!%' UO
2*!%!+"#"#"J' 4"'2"' &O 4-"'"' ;-("' ' *!"-' :-' &!"*'
2!'"-%' !/"' "g"' #"' +"(%-"' ' /'+"(%-"'5' ;[(' ("' ;0-@
7/*-%' ' (-'"(' 4!' (0' 260"' '"$'"-#-"' 6' &"' +0"%'
-' ' O ['(' 0' &0'2*'%' /%' 10!7"' 2'-['"' %' &- .0&&"%'
1*/%' 044*'%['5' Q!0/%'*/%' &0. [' (-'(*/%0(-(' ' ;"0!'
' #0/(' '26' ' ' +, '
%'N' 4' %PB' /%'"' #"!(' 0!7!"(' +*!&%' ;'!-0/(' -(%
&0' 2-%['(' , !-' +*!&%' $!' 7'0/(' %;'4' A ' 10!2!/('
"(%' 022!("-(' , !!-&' 0-%' 0!2!/(' *26-('"%' */' /"' &"' 4*"%
4'*."' 40"' %"(+*/7/07"(' &*-0!(' -&' ("'#*-%' 4!'7-"'
#"&$0-%' 40"' &"' 9!7"-/'/%'#"&' 0-7!"' $'*-#"' 1
"2!"%-' 4' BS' %' 10!%"'"' &!-' '"%'"+4"'#"'$'"(26"
"0!"' "/' (*/' .-/' U&!-' ."'("' #"' 1"0!'$'0%"' "/' (*/'
.-4J' ' '4' 0"'#!!/"' ("2"' .-"/%(-' 60!%"' 1"g"'
, !!"&' /"' 4!;%' $0-'"' $0!%"' '< ' M) ' *4&0'
%"'' "(%'2*!."'%"'#"' 80!"' "%'#"' /"7" ' 6/' 1'F'
%"'."(, !"(' #!' !-' #"' ;-"/'$0-'"' -*"' 4'-"' 0' 4*"%"'
&*"' *.'-' 0/'4*+' (0-/%"' ?0'-"' ' 0-."' ;"/"*-%0"
&*"' $0-%' 7'0/%' #"40'%-"' ' ' &' ./-' G)Y' *%"('
2"(' "g"(' , !-' (*/%' %"&"(' /0%!'"&+"/%' U+-/;'0&"(J' ('
&"(' 4!"%' *4' $0-'"' 0'%"$&"' (-'2*+' #"' $"-"' ;*!&-"
(*!$'"' "/'"g"' #*!(' ("' "%' "4(%' #"(' 0!%'"(' %
$!')' /' "#' .0(2-"&' 0'2-#"2&-/' -(%' -"!:' ("'.-'
#!0-7"' $0-%' .-/' '4' B)' #0/(' & @
5 '$$!J(' "2"(%"' 2*/#-%-*/'0'+*!&%' #""7"/('
"/'2"' +*/#"' , !-' /*"/%' U 07"/%J' "/%' #"!:' "0!-9'
A , ' $d' %8.--9' / ' 1"(% 1"&-:-"' "%' "0!' #"' .-"'
/' , !-' %*!%"' "!.'"' "(%' 0((*!.-"' . ' %!2 #"[' ""'
K K' !J(' %' $!'"/%' +-('"/("' "(' /0.-'"' "%' ;0&&"@
/-"'"(' 4&!(' #"' #"!:' +-&&"' 26".0!:' -"(, !"&(' 0.*-"/%'
4*!'."0/2"#"' $*-/' #!0.*-/"' &-%-"'' #"#!"0!'#*!2"'
;-"/' "%'&0'7"+"/%' ' ' ' wJ' 7"' 60(%*-"/%
&"(' /7&*-(' #"' 40(("'"2%%"' "0!2"' 4*!' &"' #0/7"'
#"(' 80!."(' #*/%' -&(' ("(%*-"/%' ;'7'0/#' +"(";"$' 4*!'
"!:' "%' 4*!'&"!'(' 26"'.0!:' '-/' '--' '--' %)' (' "(%*-%
U-"(' 26".0!:J' $*!&[(' "%' *44'"(("(' 2*+6-"/' , !!-&('
"!(("/%'"(%"' ;-"/'7*!'."+"('"%' 044*'."/#"(' #"' $*-/H'
#!0.*-/"' "%' #!0-7!"' #*!2"' ' !'/-' Y)' &' "(%*-%
&"' +*-(' #"' +0-' , !"' &"(' "0!"(' "*/%' "/' &"!'#*!2"'!'

5U' 50' 90' B' ' 253254 3' G 25'+2' 492' ?92' 2&283: 3'
95J' <2B8:55 J2' :BJ \0 23' ?9:5' E25: 3' ?92B B' 2 92'
42' 3: 5J'<9 380 :' ' '
6' < B3 20 .=' N' 53B2' 429A' 2 9280 .: ; ;2'+2' <: 8*
8:5' 5:92' H5 J210 ' - V %' !2' < B3 8'
G 25' ; 3 5' 49' 4 23' <:B3' 42' < 25.2' E2.' ; 28' 4 .328'
J +\280 <:9B' ; &25' E25 B' ; :5' .=2 ; 5' 42E2B8' 255280'
25' E:+:532' 42' +2E2B0 9' <:B342' :50 2 92' 4:53' ; 28'
4 .328' J +G28' 283: 253' ; ' :9B5 280 ' , * +'
480 V' 0 <' %F0 4 58' E2' ?9' .:9B3'
52' <:B32' <: 53' 4&:B49B280 ' $ 0 /'
3' 9' <' N%' ' +' 5&' ' < 8 8: '29' 42' 2 9' 52' G:+30 5' 1'
+' 82 ; G+2' ?9&+8 5& 253 3' ?92' G 33B2'
&2 9' 25<4 53' 23' ?92 29 3' 3+2' 8:9B40 7
$ ' C ' ' 82' B23:9B5' E2B8 +' ; 9B +2' .: ; ; 2'
<:9B B2' 42' &2 9' 0 23 \' B: ; < 3 828 +238280
. ,/'00 R 53' .28' 429A' ; 538' .: ; <+:32' 42' B2'
95' <2B39 8' 25' &2 9' H 9 BI' 23' <B254B2' +' B:932' 4& 5*
J+232BB20 ' <' N C' &2 9' +29B' E25: 3' \' +' G:9*
.=20 3 53' 2+28' 428 B:R253' 42' 3 832B' 829+2 ; 253' 95'
<23 3 ; :B.2 9' 42' B 54 8280 ' V' B' +2
; :R25' 42' + ' JB 542' 23' +:5J92' 428<25820 &2 9' 283'
E2592' \' +29B' ; :9+ 50 5' ' 4 83 + 3 :5' 428'
2 9A' 23' 28825.28' 3 BG28' 42' 3:9328' 8:B328' 4&=2BG280
B . 52823' +29B80 5' "C7' 3 8 5202 9G:9 + 20 2 9'
4& ; 254280 ' 9' :B320 =9 +2' 42' E 3B :+0
E0 V' 9' :B3' ?9' 9B' 82BE' 9A' :B 2EB280 4 32'
2 9' G+2920 5' AE 0 V%' 5:9BB .2' 82' J\B42B' 42'
G: B2' 2 9.B920 ; 8' + ' 2B' G:9 + B0 5' E+0 V%' 9'
42' ; B28.= ' HB2BBG210 5' E 0 V7' 9' 42' :BJ20 5'
E+0 ' 9&:BJ20 2 9' .9 3320 25' + ?92+2' :5' ; 233B'
; 2' V+2 < 50 ?92' 5:98' <<2+:58 2 9' < 5G20 :9'
G 25' = <<: .B 8' 4&2 9' ; 8' + 2 9' G:9 + 2' <9 8' ; 28+G2'
E2.' 8RB:<' B:8 30 E :+ 3 :9' .2329A0 5' E 0 V"
9' 42' ; 8' H8:B32' 42' < B 9 ; 10 ' ' V' 9'
:B32' 2832 532' H4 32' 2 9' 42' 82< B 3 :510 ' 9' +9 ; *
5G9820 2 9' 42< +\2 ; 8328' 28' 9+.2B28' 52B:53' 3:9*
.=G28' 42' &2 9' 4289G+ ; G0 :9' 42' .2+2' ?9' 9B' 82BE'
9A' :B 2EB280 5' AE 0 V' 28' B283 9B 580 .:9+ 80
<B288 823' 2 9' 42' .= B0 5' SS E0 ' 2'+' ; 5 2B2'
42' 4 83 +2B' &2 9' 42' E 2 <<2+G2 ; 2' :9' 28<B 3' 49'
E 5 - ' '39' E29A' E: B' 2 9' 42' E 2' 2A.2+2<320 +' 93'
B2.3 2B' 425A' 3B: 8' : 80 E: B2' @98?9&\' 82<30 -
22= ' F' &2 9' B4 53' 93B2 ; 253' 4 3' &2 9*42*E 20
' 0 ' +2' 52' 82B '@ ; 8 8 58' E: B' 428'
2 9A0 .2+28320 ; <2B +20 42E 20 - FFC' &2 9' :B30
<:8G2' 4:9.2 ; 253' E2.' 49' .:33:5' 4 58' +' 4253' .B29820
25' << 82' J' 4:9+29B0 23' + ' 3 . 882B' 283 53' .:B*
B:35<920 5' 7 ' <: ; ; 42' 82B + EG2' 4 58' 2 9'
5 20 :9' 4 58' 2 9' 42' ; 80 :9' 2 9B:M2' ; 98?9G20
2 ' 7 F' 3 2 9' .+ B2332' ':552B 8' 58' ' ; 233G8'
3B2 ; <2B' 25' 952' .=:< 52' 4&2 9' 42' E 2' 42' +' <+98' 520
3B: 8' :5.28' 42' . 52+2' 3B G20 23.' 5' 7 F' 2' E2B'
?92+?92 : 8' E2.' 42' 2 9' 4& 5J20 :9' 42' 5 20 :9' 42'
B:M20 - 7"%' &2 9E2' 952' .R8' 28.= 9 22' 2 ; <B254'
<+9' 3:83' J2+G20 # < '3' 0< " ' :98'
25' 2B 2M .B: B2' 42' G2+28' 9A' J258' 42' \' &2 90
' ' 7N0 4 58' .:+ 8
:+ 540 =: ; ; 2' E:9G' E2.' 952' < 88 :5' 2A3B :B4 *
G B2' 9' 3 42' + ' + J9*0 23' 8:98' .2' + 3B2' E: 3' 283G'
2BGG' 28.=2E 5' 42' B 80 + ' <B2 ; 2B2' 55G2' 428' 3B:9K
G+28' 5' V%FFF' 3:932' : 80 ?92+?92' 32 ; <8' <BG80 +
.: ; ; 25.' 42' ; 233B2' 42' &2 9' 89B' 8:5' 29' H\' ; 233B2'
42' &2 9' 4 58 8:5' E 50 \' 2:' B G 3B2' 42' 8:5' 2A +3 K
3 :510 870 = ' ' ' * 70 4 58' 7 > ? H #' 9'
?5:R2' @:9B' 23' 59 3' :R20 89G ; 2BJ2' 235 9 30'
G2' 0 B:2' 3' 0' <' N%' 9' 3B:9G+20 J ; ' 49'
<28.=29B0 < ' 1' 58' 95' ; :B3 2B0 42' 2 9' 52' < +20
' 3G' &2 9' 3 <+29B2B0 +2' E 5' .= <32B0 5' 0 3G'
&283 :+ 2' < 82B+&2 9 9.B G+2 90 5' UN'3'90< ' M
$- ? ; /"." ; '$' 4-20'#' %0/' %"/' @ g 0&&*/'
' ' 4' ' : ' (-7/-$-0/%' "0!' ("' %'*!."
#0/('&"' /*+'#"' 4&!(-"!'(' &*2[&-%;(' #!' "'BE5' ;*!'@
7!-7'#*5'4'*."/3' , ' *-7*520%0&' 4 , "
"%'4*%"!7' ' 0/2'-%0&' ' -%0&' +*# 0", !*5'
#!' &0%-/' 0, !05' 70"&-, '*M' 1 ' 1 ' "0!5' [-+'8'
P% /57*%6' 06.05'0/2' ;0!%H0&&"+ ' "605<"/#' I
(0/(2' ' #"' +*%' ,"#"' &0' &"/7!"' &-%%%"'@
'0-'"02%!"&&"' 4'*.-"/%'#!!/"' $"*-4-20'#"' , !-' ;%0-%
%*/"' "%' ("' 4'*/*/, 0-%' (0/('#*!%' / '#!' +*-/("/'
."'("&&"' "(%' %*!9*!'(' #"' #"!:' (8&&0 ;"(5' 4!-(' "&&"
(1"(%' 2*/%'0"%; ' ;/' "0!'-4*/*(8&&0;"' "%' &0' $*'+0
".' "*!' ' "(%' ("%;"' /' &0' 20%;7*'-"' "(%' 40%*-(
&' /18' 0 40(' #!0!%'"' ;%8+*&*7-"' [' 26' "26"' , !"' &"
&0%-/'0, !0' , !-' 0' #*//; ' ;7!&-; '"+"/%' ."' *!'
++"' ", !0' 20.0&' ' 0.0-&' #//;' / ' ' F
' ' QN*GG*5 *3 G/0 8' ; ' R5:5R ; 2'
<B'2532 ; 253' 598 +G' 42' GG5 3 2B' 28' G 9GG5 3 2B8'
82B:53' ; B?9G8' 23' .:53B2* ; B?9G8' 9' .:B<80 .:+23'
49' < 24' 23' J:9< +:50 ." / ' / ' 4G?' VNC7
b ?' A , '"%'1
%' DM@; !@'*/E'(' +' *+'.!&70-'"'#"'
4&!(-"!'"'#!%+4-H*/(

@ @ ' .*8'
@ ' .*8'
# ' 'D;@;0@-'-"E'" / ' ;;06-''S"%;'
#0/('!/'7'0/#' ;%*//"+"/%' ?0-(%*-' , !-%-"/('/('("/('
"%/*('8"!:' ;;06-(' '# ' '---')' %(-#"'
%0/%' #!0+*!"%!'4"!:' ;%"' ;;06-"' '0 4' -&&
' ;"6"<' 40%'*2-/"<' 9!(, !![' &O "/%"'$-%"' *!('
("'"< ; ;06-' , !0/#' .*!(' ("'"<' 0!' ;*!%' Q!"' .*!('/"
+!0!'"<' '-"/' 4"'(!0#;' #!' %*!%' ' ? ' ' $
' ' G' *!(' ("'"<' ; ;06-' , !"' .*(' 9!7' 0!'"%'
;%;' (* -2-%; (' 2"/%'"' .*!(' -/' #*' " ' -9' B' -"'K
'*%(' "%' 40-&&0((' (' 60'+"/%' (!"&"(' 4&02"(' "' 4"!4&"'
; ;06-' # ' *"0,
' ' # ' 1; ;06-' "(%' 2"&!-' [' , !-' 1; @
%*//"+"/%' $0-% *!.'-"&0; *!26"5' 1 ; ;0! ; '2"&!-, !"'
1; %*//"+"/%' $0-%' ;0& ; !%-"'
' D 1E D; @; 0@-'5 0&(7'0."' :.-I' (' 4' G)'
#-%' , !"' 16' "(%' 0(4-'; "E' . ' ' "(%"' &O ; *!26"' *!@
."'%"' (!;%*//"' ;%'"' (!'4'-(' /' (!; ;06-%' [' &O .!"'
#!!/'; .;/"+"/%-+4' ; .!' *!#!!/'(4"2%02&"' 07' ;0;&"
!!?#%' !0/2-"/'$'0/,0-(' $0-(0-%' ; ;06- 02&-$5' '"(%'
$-26"!:"' , !!-&' /"' (*-&' 4&!(' , !"' ;$&;26-
' ' O I' (' ?*!%' $!' .0((0!('U;'0."J' , !-' /1-
$!(%' "(;0&(' < ' 4' A ' ?*/&%' UJ1J' 0-' "(%;' &*/7!"@
+"/%' "(;06-(' Q!!*/, !"('/1*(0-' 260/(*/' ['$0-'"' "+@
4"'/#'"' , ' 0"' (0' ;"0!%"<' +"' $0-%' %0/%' "(@
;0;-'' D9!"' 9"' /"' (0-' "0/%' -' /!& &0/707"' 1' :-:
' 2-(%' %"+4&"'(' &!"' -"'%' U("'0J' "/' "((0+4&"(' (-' , !"'
%!-$ -2-&' [-' 40(("'*/%' $"'+"/%' (""(;0&'!/%' *%('
BB JN:-/!' (' *'(' (!"/' (!;%*//"' ;%'"' (!'4'-(' /' (!; ;06-%' ['&O .!"'
9"' "+;(' U'"(%0-J' $"!(' (;06-(' */%"!:' "%' +0(
D0; 0%%!9' *(' ')M ' U 0' +0-(*/J' %'"+;&"' %*!%"'
"$$'0;"' 0/%' ("/%'$*-6&"' "(;0;"' "%' 4*!'$"/#!"'
#"' 2"'.02"(' /' 4&!('#"' 2-/, '2"/(' +-&' 4&02"('%;'
"GYM' 0 I'B' ' "(%'2"&!-' , !-' "(%'$*'%' *!'4'"!<' #0
%"&"' 2*/#-2-*/' , !"' ' /"' (1"(;06-(%' 40(' "%' "(%' (0/('
40*!"' "/' &O +0/-"'"' , !"' ;*/' 6*++"' 4"!%' "(%"'
, ?#8 ' =%6' B ' %' 40'"' , !"' %'-(%"2"' "(;0;-%' "/'
4"'%' (*/'9!7"+"/%' "'-;')B' -"<' ;*/2!""' "/'.*!('
4*!"' -"!'&"'$'!-%'#"' .-"5' 0" ;*+(' , !-' (1"(;06-%' --'
"(%' +*'(' [' +*-%-;' !"(2&' GBYBR' -&<' 40'&0' 60!@
%"+"/%' (-' , !"'%!-%' */%'*&' "$!%' 2*!0'('/"' /-2"('
/"' $-(%' 40(' 1"' ; *&5' 2 ' < ' . ' GYB)' NN:.I' (
0 "/#"+0-/' &0' %-!"'"' U+026-/"' #"' (-;7"J' $!%' &".;'"
0!'4&!('4';(' ,!!-&('4!"'"%' #"' "'7"'02' , !-' 7'0/#"@
+"/%' "(;0;-%' 2"!:' #"' &0' .-&&"' ' ' A' %'
(-' &"(' "(;068((*-%' 18."' , !-' (!044'*26*-%'
= M' 'O I'(' &(' (1"(;06-((*-"/%'2*++"'/%' -&' &0-((*-%'
0-/(-' "(26044"'&"' 4*-/2%'#"' (*/' *220(-*/' 9
04
' E $ G L 0&&*/' 1 F ' 4'*."/3' 1 ' -%0&'
1 '#"' '4'; $-:"' "%'&"' '0#-20&' ; 0%'' ;%*//"'
, !-' "(%#0/('&"'*!26-1 ' ;%*//0/%#0/(&!"(407/*&
1 ' $0-'"' -&&!(-*/' ' "%' #0/(' -%0&-"/' 1
;%*//"'5' "%' &"' (' ;%8+*&*7-(%"('"'70'#0/%' 2*++"'
#; '-.;' #"' 1 ' ":2&0+0%-*/' /0%!'"&&"' #!; %*//"+"/%'
+4' 4!'%0/%' $ #
#H&' D; @; 0@-@("@+0/E' ' %0%' #"'
2"&!-' , !-' "(%' ; ;06-' "%' ; .; /"+"/%' 0' 20!(;' !/'
; 606-(("+"/%' D9 ; /; '0&
' / 8&' 19 B(' (;06-(("+"/%' $ '
' # $ ' '1
$'$- QQ 'D; @; 0@&0@(*/E' ' ' 4"-"/' %"'+"
#"'+0/;7"' (4; '"'#"' +0#"
$ '_; @; 0'@; 0@E1E9 I + ' 2%-*/'#!; ; 0';"'
[# $ ' 1 1
#' f 'D; @; 0'@; ; ' ; ;"E'" ' " ' /"
4&%-+"' ; ; 0'6;"' I
9@$- ? 'D; @; 0'@; "@+0/E' ' 102%-*/'
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4*!(("/%' [' $&"!' #"' %"'' NNBI "'+"' #"' 40."!' ; @
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' ? ' , ' ;*!'7!-7' ' 7*!%@' %-;'"
\' f f 'D#@[;@/I' *!' $- $& 'D @[;@/;@-@#!E' ' ' *-((*/' , !-' (" $-:"' O! :' '*26"' (' "%' O! :' .O-(@' ("O! :' 4O"' !/' #-(, !"' #"/%"&;' , !!-&' 4*'%L' (!"' &O'%;%" '$- ?'H :M.^E&_' #" :"-.' '"%"/-' ' "%' .2: _' /O@' -'"
\' $- ' D;@26"@/ME' ' P-' *8' $- % $- && ' D;@26"@/-@-&O@9!' ' + *!-&&;"(' "%' /*/' ;@26"@/-@8O@9!S' ' 2%-*/' #!;*6"/-&&"' ' O' &*-' #!' M' ."/%#(" O/' -.' 4'"(2'-%' O!' 4'*4'-;%O-'"' "%' O!' $"' + -"' "26"/-&&O7"' (!"' &"(O' ;' "('&"(' 6O-"(' "%&"(' ;!-((*/(
?' V* B
f %%O%&' $ D;@26"@/-@& ;' &&;"' ' = ' + *!-&&;"(' "%/*/' ;@26"/-@8;' 8;"E' 4O'%' " ' N F ' ;'"(' ;26"/-&&;(' U d "' +"' #"' 2*/(%' ! 2%-*/' ' ;(' ;26"@' /-&&;' 4-"' ' ;' ;26"/-&&;"' ' 7' ;(' 4-"' ' "' 4-, ! ;"' O."2' S"' +O'%"O!' , !-' 8' $-7!'"' , !O/%-%;"' #"' 4"%-%"(' 7/"(' 2*!';"('*!'%*'%!"/("(' "/' $*' +"' #"' 26"/-&&"(
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\' $- c & ' D;@26"@/-@ &"!' ' ' + *!-&&;"(' "%/*/' ;@2;"@/-@8"!' E' O' + ' N-&' "' +"' ' !'O&' !@' .'-"' , !-' ;26"/-&&"' &"('(O' ;'"(' N i' "' +"' #"' <**&*7-' ' "/'"' #!*-("O! :' , !-' .-."/%' ! /-, !"' +"' /%' #"' 26"/-&&"(' "%' , !-' O44O'%-"//"/%' ' &O' <*/"' %*' ' -#"' *-&' -&' 8' O' "%%' %*!%"' (O-(*/' #"(' 26"/-&&"(' "*!' #"(' &O' ."(' #"' 26"K /-&&"(' N *!%' O/-+O&' , !-' #;%' !-%' &"(' 2;"/- "(' #O;(' &"(' 9O'#-/(
' ? ' #
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$' f ' D;@26"@/*E' O' + 5' "' +"' #"' $*/#"!' ' O((-/' #"' %"/(' $-/"' "%' 4O'$O-%"' + "/%' &-;' ' "/'$"' +"' #"' 2O'$;' &*/7' O8O/%' 2* + + ! /-2O%-*/' O."2' &"' 2O/O&' #!' $*!' '/"O!' #".O/%' &"' "(' 4&O2;' ' "%' ' "2".O/%' &O' + O%-;' "/' '$!(-*/' ' + #%' +(O%' AMH' , ' ' ;'*/<"' N /' %'*! . "' O!((-' ;26"@' /"O!' , !-' "(%' &O' .;-%O;&"' *'%6*7'O4;"
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f ' D;@ 6"@.M&' O XX' E ' "'%O-/"' &*/K 7!"! "' #"' ;'-/(' #;' $-&' "/'2*%*/' ' "/' (*&"' ' "/'&O-/"' ' "/' 26O/.' " *! &-/' + *!&-/;(5' 2"(' ;'-/(' (*/%' '*!&;(' "/' $*' +"' #"' 2"'2&"' "%' O%%O26;(' ! / "' 4O'%-"' #"' 2"' 2"'2&"' 4O"' (' ;*!%' , !-' "/' ';!/-%' %*!(' &"(' %*!(' "%' , !-' (!O44"' &-"' "/%O-/"' "(' &-&-"(' #!' .-&&O7"' ' "-@' 7/O-"/%' &"' ! ('&*/7(26".' "! :' , !-' #/O-"/%' ' /'#"6*' (' U#"(' ;O&2*/(J' *+ + *!' ;26".' "O! :' ' Y ' ' "' +(' #"' 2* + + "' 2"' ' ((" +; &O7"' #"' #-:' ;26"."%%"(' O/(' &O' $-&O%' !' #!' 2*%' *!' ' ! ;26"."O!' $'O/2O-(' +;%-' , !"' #*-%' O.*-"' + -&&"' + ;%' ' N i -7' $-O-"' *!' /O'O%-$-#!O$-O-"' &*/7!' "' "+;' '*!-&&;"' ' *(%' !/' ;";' "O!' , !-' /"' $-/-'O-%-*/(' (. ' YMA ' O% 'a' "(!44&-O/(' 4'-/%' -'*-("(26"<' #"' $-&"%' 6 >' . ' -:' G+' 6!-%' "(26-"e' #"' $&&' CO/"' S ' 1' N :.!' (' ;!(;' +!O' "%$O-%"/%"/#!"' ' ! '+O%-/' , ' !"(%*-%&"(' "' "' -/' ' !!/' "%*!' ! /' + *!&-/' .' "/%' % #!/' "' 6O8"' !/7' "(26"."O!' 9 . ' 2' ' #*!;&"' ;O&&O#"' ' "! :' "(26*."%"(' #"' $-&' ' ' *-("(26"O!&:'*!' "(2O-7!' "(' #"
$-&' ' 1
' # $ ' ?"') ' * ' * ' ;26-%5' 7; /"' * / ' g O&&* /' "2 ?5' '*!@' 26-'"26"' +, ;O(@&O%' "(' $*' +"(' #" !O/2-"//"' &O/7!' ' #!' 4O%*-(' %"&&"(' , !"' * ' 1 ' :* ' .-"//"/%' #&O/@' 7&O-(([' -/' ;26;."O!' &"' , !"' &'4'*.-, /%4'*;O;&"' +"/%' #!'2"&%-, !"' >' 7O;&' (7"-/' (7"-%+"5-'&' ' ;"6"@' ."O!' "($*' +"(' , !-' */%' ! /' %' *!' ! /' 5 6 ' #"6"%' #26-%' /"' 4O'O-(("(4'*/@' .*-"' 8' ;%' "O%%O26;(" ' 2"(' $*' +"' #"(' %-"//"/%' (O/(' #*!%-' "' "/%'*.' ' ,!O/%-%;"' #"' (*' "' !' /*' ;#;2' (O/(' O/&O7"' &O' O' /*' 4-(*, + ' O/'*@' '%"(' (*/' /(' , 4O/%' &"' 2 ' ' O/(' ' ' #;;(-7/;'"' , !O/#' &"(' 4O'O-(("' %"/%' ;-"%"' ' "%' "/' "' :*!#*/' #"' 4O'$' "(' ."O!' #"' 4-(*' (%*!(' &"(' #"' .O/('*' ' 8' &O' ' 6 ' "!/' ' $-&(' #"' &O' 6 ' ' %' "! :' * / ' !"(%"' *' ' &O' 4-/' ' ' % , !' &"(' 4O' 2*!/"/%' ' 26"."O!' #-' ' #O/(' &O' +' *+ + *!' ' !(' "(%' &"' 7'O/#' &"' 4O' "/%' ' !-"' "(%' ' "O!' 4"/' &'*' "/' $-&(' #"' &O' 4' ' ' 26O/%-2-"/%' #"' 2"%' ' 2*' *' ' "(%' 2* + + "' &"(' $'O/2O-(' #"' 4O'O-(("' %-"//"/%' (O/(' #"' 4'*.-/(2"' "%' #"(' 7"/(' #"' &O' 4O'%-"' *%' ' ' 4%-' "' ,O'O/2O-(' #"' 4O'O-(("' %-"//"/%' ' ' "' #"' 4'*.-/(2"' "%' #"(' 7"/(' #"' &O' 4O'%-"

42' <:93B2' :9'<:93B2+2' ?9& ' , / ' E 253' JB 5"' 42 ;253' ' & ; 9' 42' &:< 5 :5' 42' .=2G
0' ' QG*.=29*E2*+G0' G2?' *@ ; ;2429A' ' ; 9238' 82' 89 E2530' +2' <B2 ; 2B' <B254' +2' 8:5' 42' ,5' 6' ' $9' ' + ' .G2E2+9B2' G< B82' 23' +:33 532' +2' . . :9B3' & :2 + 25' 290' + ' 3G32G.=GE2+G20' ' = , ' 5' 9' 32+' ?92' 4& <: :5' +2' ; 5 83B2' 32BB G+2' ' ; < 3 253' 49' 4 29' 4:53' +2' 8:9 +2' 5E 5. G+2' J 32' 3:98' 828' 8258' 28' R29A' G3 5.2+ 538' + ' 3 32' G.=2E2+G20' 9' 32 ; <+2' 3' ; 9J B' + ' 42 ; 29B2' GGB 5+G2' B' 828' :B 8' ; <9 88 538' ' ' :988' C ' , ' * ' , ' = , *' &G3 3' 95' @2952' =: ; ; 2' 4&952' J9B2' .= B ; 532' < +20' G.=2E2+G0' G J5G' 42' <+29B80' + G3 3' ' J25:9A' 9' .=2E23' 42' ; :5' + 30' 9]6' ' 7 ' A ' ' ' - 4 ' <' N0' 4 58' ' 5' 42' .28' 8: B8' *' ; 29A0' .=2B8' 9' <29<+2' B2 ; 5' ' + 428' 32 ; <+28' 82.B238' + ' G598' ; <94 ?92' :B3 3' G.=2E2+G20' 952' 3:B.=2' ' + ' ; 50' ' ' ' O ' , / ' = ' ' = ' ' L ' :232' G.=2E2+G0' 8&283' 4 30' 8:98' + ' 28"' 3 9B 3 :5' 23' 42<9 80' <:98' <:G32' A: ; 53 ?92' 3 5343' < B' B +2B 2' 23' 3 5343' 8GB 2982 ; 2530' . : ; ; 2' 4 58' .2' E2B8' ' N' <:G328' 8 2BG80' G.=2E2+G80' 89G+ ; 28' ' ' - ' % , ' F 6' + (B' 2A3258 :50' <254 53' 23' 25' 4G8:B4B2' $9&95' @2952' =: ; ; 2' 8: 3' B <<G 42' &2 23' 4&952' . 8. 42 000' +2' GB9 30' +28' ; 8828' 4&: ; *' GB280' +28' <+ 5328' G.=2E2+G280' + ' 52 J2' 42' &G.9 ; 20' 3:93' 8 ' JB E2B ' 4 58' + ' ; G ; : B2' 42' &G+GE20' 6 C ' ! ' C ' 2' 59G2' ?9 0' < B' . 5?' 29E280' : ; G2' G.=2E2+G' 4 58' + ' ; 2B0' E ' 6 7 ' C ' " ' 6 ' O I' 8' ' E 53' .9B 532' .9 ; ' 2 ; ; 2' :B"' 825242' 3 53' 828' < + ; 280' .B 530' 28.=2E2+2420' # ' & 7 ' AAAE' #A ; 6' 8' ' +2' 8 93' 898' . : ; ; 2' 428"' EG20' :932' 592' 23' 28.=2E2+G20' 25' BB ' LAE6' 8' R ; <=28' 4:5.0' <+29B 58' 28.=2E2+G280' ' MB
' ' / ' 2BBR0' / ' 5' ' 4 3' 988 /
M' # ' QG*.=29W 2*+GP' . : ; ; 2' 429A' ' ; 9238' 82' 89 E2530' +2' <B2 ; 2B' <B254' +2' 8:5' 42' 29' 3 $' 82' 4:9G+2' 42E 53' +28' 2' ; 9238/0' / ' ' 882B' +:3"' 32B' 8' ' .=2E2+9B20' ; 233B2' 25' 4G8:B4B2' + ' .=2E2+9B2' L &G.=2 2+2B0' W' ' ' .B 5 GB2' 8&G.=2E2+2 - ' O I' 8' + 28' :93' G2 9' 8&2.=2E2+2B' 23' 8&28"' JB 3 J52B0' ' ; 0' "CC
' ' 8"+ 3' 7 " ' Q8' ' ?9 8' ; 9+ 2B2 ; ' 2A. < + E2B 30' = 7' ' <' "NF/0' 42' 7' 23' * ' " , ' . =2E29 0
, @* # ! ' QG* =2*EG*+2* ; 5/0' ' ' .3 :5' 4&G.G2E2+2BP' G3 3' 42' .2+9 ' ?9' 283' G.=2E2+G - ' O I' (' 8.=2E2+2 ; 2=30' " "
' ' ? ' > * /
3' # ' QG*.=G*EG* /0' ' ' 2B ; 2' 42' . : ; ; 2B.2' ' 23' 3' G.=2E2 9' L 58' + ' + 39B2' 49' . :3:50' +2' 4 A G ; 2' 42' &G.=2E2 9
' ? ' *8' $-
! ' QG*.=2*E 5/0' ' ' 5. 2552 ; 2530' ; "' J 83B 3' ; 95 . < ' + ' & + H+2' B: I' 52' +2' E293' H E 5.28' 428' :548@0' 5' 4&R' 8 3 8 B20' 9A' G.=2E 58' :5' 4 B ' B 5.=2 ; 253' ' & BJ253' 89B3:93' 283' .=:82' 5G.288 B20' ' ' ' 4' - , + , ' " , ' ' 1 ' , 9 4' , ' ,1/ ' ' 3 ' ' " ' ' " ' ' 58' +28' R8" 80' ; J 83B +8' 4@: 538' 9A' G:9BJ ; 283B28' L 58' .2B3 528' <B:E 5.280' 5: ; ' 428' ; BJ9 + 2B8' ' L # : ; ; 2' 42' + : ' 5 : ; ; G' < B' +2' 82 K J529B' <:9B' B254B2' + ' @983 .2' 9A' E 88 9A
- ' # 0 A 56' 8' ' 3.=2E28?:28' 9 + 9 ; 280' ?9' 42E: 3' < 2B' +28' B 8' 4:5' . : :52 ; ; 30' +28' 42 ; 54' 23' B2?9 83' ' 28.=2E 58' 42' 580' ' < "NN' ' S 68' 3' <9 8' 283 G+ 3' H+2' . : ; 32' 42' ! :5+ :B3' ' 25528I' G + 80' <B2E:80' 28.=2E 580' 82BJ258' 23' 3:98' 93B28 : +2 2B80' ' ' ' "N" ' LAE 6' 8' .=2E 5' 3:9B5 53' +2' 4B: 3' 9' . :53B B2 U2' <29' 4&283 ; 2' 23' 42' G 882' ; 820' ' ' * ' O / ' 3' 50' < ' C% ' ' 8< J5' / ' 3 + ' * 1 ' * ' / ' G 8"+ 3' ' * 1 , ' 49' J2B ; 5 ?92' ' 5. 25' 8 A:50' * " ' 5.' = 93* +2 ; ' ' * ' +2 ; ' #) ' # ' 42' * ' BGJ+2B0' :B"' 4:552B
' QG*.=2* +" *@&/0' 8' ' :5.3 :5' 4&G.=2E 5' L 0 2 ; <8' 42' 2332' 95.3 :5' L :B<8' 428' G.=2E 58
' 6 ' A ; 6' 8' 5' 8:5' 28\2E 5 J20' + ' 293' G 2= +2' 328 ; : J5 J2' B' : 0' \& + 3' + ' 3 +2' ' <: 530' O ' ' 4 58' ' & B.2E28?92' 9 + 9 ; 2' + 5.2"' ; 50' ?9' 3 53' E +9' ' 8:5' 3 58' ?9& + B283 G+ 3' 28.=2"' E 55 J2' ' 58' 23' 3' ; :9+3' 42' G 2580' ' < ' <' 6' O I' 8' 3' 93' &28.=2E 5 J2' :83G0' 23' :B4:55G ?9& + 50R' 9B: 3' <+98' 59+8' 28.=2E 580' ' ' ' 0,F' .G' 0' " F
' ? ' /
3+ A ; # 0' ' QG*.=2*E *5 +0' 5 * &/0' 6' $9' . :5.2B52' +2' . :B<8' 428' G:=2E 5 ' :9' 952' ; 95 2 *' ' 3G ' 0' D

- ' # ' S 6' 8' S' .= BJ2' 4&25' 325+B' B2J 83B28' 2+' G +2B +233B28' 28.=2E 5 +280' 1!7 ' / - # ' 3' 0' <' 7N
' ' <(& 5 -
%' # ' QG*\ *45G/0' ' ; ' 2B ; 2' 42' M: :+:J 2' 25B2' 4& 5 ; 9A' 42' + ' ; +2' 428' G4253G8' 23' ?9' E E253' 4 58' 428' 32BB 2B8
- ' (! ' & A E 0' E <GB20' < B' 952' ; 9E 82' 8' 8 ; + 3 :5' 428' +:5J8' 23' :B38' < ?9 538' 428' G.= 45G8' E2.' +28' .B: .=238' 42' + ' E <GB2
3' # ' QG*\ *45 *5&/0' ' ' 2B ; 2' 42 .= ; 2' 9G83 5.2' :BJ 5 ?92' ?9' 283' +2' <B 5. <2' E25 ; 29A' 49' E25 5' 42' + ' E <GB2
' ' ' A E 0' E <GB2
j' # 0' ' QG*.= 0' . *E&/0' ";' 2B ; 2' 42' 9. :552B 223EG52B 2' B:9.=20' J:9B ; 54' ' = 2B' : 82 9' G.=
- ' #3 ' A ; 6' 8 2' 8: 2M ; 2' 28.= 2A' 2' +9 ; :583B2B' .2' ?92' 39' E: 8' 7B' ' 56' CN"%0' 3' ' ' "NN0' 4 58' ' O I' 8' B42' ?92' 39' 8: 8' J B5R' 4&95' :R82+23' E 0' +9' ; 233B2' H 9' 9. :5I' :9' L 9I' < G &2542 ; 5' 9' <: 53' 49' @:9B' 23' 8& 3 +2' <B253' 8"' <B2 ; 2530' 8' +9' :832' +2' 2G <<2B:5 0' 23' 82' 39' E: 8' ?9& + 8: 33B: <' 28.= ' H B:9.=2I0' 8' +9' B2 ; 23' +2' .= K <2B:50' C!"7 ' ' 6"' F0' 4 58
' ' &283' & 5. 25' 4@2.3 ' (& 7 ' (& ' 3 ; 420' B:9.=20' .= .=2' <B:E25?' =7 73' 28< J5' =7 5!3' 3 +' (& 5!3' 42' & +2 ; 54' (& 7' 3 ; 420' B:9.=2' QR:R' C 9 @
3' # ' QG*.= *B/' :9' # ' QG*.= * B&/0' ' ' 2B ; 2' 4& B.= 32.39B2' ! 9B' B ; < 53< B' +2' = 30' ?9' <:B32' +28' ; B.=28' 4&95' 28. + 2B ' + R' ' 428' G.= B28' 42' G: 8
- ' # 0' A+E6' 8' 2+9' ?9' 42E: 3' B2' +2' J923' 25' .2+2' 28:= <=20' " ' ' (& ' : ; ; 2' 42' 5:9"' E2+' 25' + ' :B32B2882' 42' =3 E +2' 42' ! :538 = :5' 8: 2 3' .=22M 23' B9 52M 429A' < 58' 428' ; 9B80' 2582 ; 2' +28' 28.= 28' ?9' 898' 283: 2530' " ' ' L A 6' 8' 28?92+8' + 5.29A' +2' 89<<+ 53 + ' < B' +28' 429A' . :B5238' 23' +28' 33 2G ' ' 952' 28.= 2' :9' <23 32' ; 8:552320' ' 3'= - ' (! ' 8"+ 3' & ' & ' * ' ; K 8:552320' J9GB 320' ; :3' ?9' 8&283' BG49 3' ' 8 J5 2B' 952' < B3 2' 42' G 3 ; 253' 23' ?9' 82 ; G+2' +2' ; G ; 2' ?92' (&!
%' $- ' D;@26-@7/*@&E ' ' ' (4;"' #"' $!("O!' #*/%' */' (" ("'%' "/$O-(O/%#"' &O' 7O/("' 4*!' ' +;&"' "/' (" + ;&"' &"(' #-$$;' "/%(' ;'-/("(' (*-"' *!' #"' %"' $-&
- ' (! ' $5' <293' .B: B2' ?92' .2' ; :3' 283' 42' ; G ; 2' B 4 . + ?92' (/ - ' & / ' ?9' 8 J5 3' G.=2"' E2 9' QE:R' .2' ; :30' ' &G3R ; :+:J 2/
%f & ' QG*.= *+ :50' A' ; :9 +G28/0' ' ' 2B ; 2' 42' ; B 52' 9 J2' 5: B' 4:53' + ' ?9292' :B ; 2' 952' 3B: ; G2' :9' 95' 8 <=:5' Q 2E 53/
3' # ! (' QG*\ * ; 8&/0' ' (' 25B2' 42' ; ; ; "' GB28' 42' & ; GB ?92' ; GB 4 :5 +20' ' . :B<8' . :5E2B3' 89<GB 29B2 ; 253' 4&95' ; G+ 5J2' 42' < ?9 538' <+ 3 8' 23' 42' <: + 80' 2332B ; 5G' < B' 952' +:5J92' ?9292' B2EG392' 4&G. +28' 23' 42' <: + 8
- ' (! ' & AVE :W0' =GB 88 :50' 23' <9.0' B 3
" ' # ! ' QG*.= *5&/0' ' ' < 52' 49' 4:80' +:5J92' . :+ :552' 8 39G2' 253B2' + ' 3G32' 23' +2' G 88 5' &G.G 52' @& + : ' 2 8' . : ; ; 2' 95' 52' BG3 0' 7 , ' @ ' E + ' 2' + :5J' 42' 3:5' G2G 52' >2' JB ; <2B ' <B2 ; GB2 ; 2530' ' ' 8 C ' +0' N' +[5 ; + ' +:5J92' G2G 52' H+ ' G2+23321' ' ' E0' T' ' 54 8' ?92' :33G3230' B:33G' @98?9& ' G.= 520' ; 254 2B' 8:5' < 5' 42' .9 8 52' 25' .9 8 520' ' @ ' ' L B:332B' &G.= 520' @9832B' &G.= 520' 4:552B' 428' .:9<8' 42' G 3:5' 89B' +2' "!@' # 8' 8' .2' ; :58 29B' 4:53' @&:58' B:33G' &G.= 52' 6 :' " , -8 ' ' ! ' ' " ' #!5 - (' ' " " ' = + E:98' R' B23:9B52M' >2' E:98' @983<B ' &G.= 520' 7!! ' ? &' +0' C0' J' :9BG2B' :9' <+ 2B' &G.= 520' 82' 8:9 ; 233B2' G 882 ; 253' L ' ' &G.= 52' 8:9<+20' +2A G+20' + 283' <BG3' ' 3:9328' +28' . : ; <+ 8 5.28' <:9B' 828' 89<GB 29B8' ' :5J92' G.= 520' ; JB2' G.= 520' <2B8:552' :B3' ; JB2
- ' # ' S 6' 8' :932' &28.= 52' H +I' +9' 4282EB2' 49' 4:80' 1&' ' ' C! ' A.' 9B' +28' 282G 528' ?9& + :53' 25 ; ' +2a' 4:80' MG' . . AAA5' LA ; 6' 8' 3' +288 2M 2832B' +28' J2+ 5280' $9' 3B: <' :53' ; 2JB28' +28' 28.= 5280' . - ' BB ' + <= 58' H&G+G<= 53I' 8:B' 8' = 932' 282G 520' . ! ' "a 7' 33 532' 3:B32' 28.= 58' 23' 3 93' E253B28' 25 +G80' +3' 3 532' @ ; G2' 3:B82' 23' 3 53' < G8' GG83:B5G80' 1&' ' '>? - ' E 50' ""7' LAE6' 8' ' 3BG8' JB 548' . :9<8' 8&253BG4:552B253 8 3 BJ280' ?92' ' 3:98' 429A' +28' 28.= 528' . :5E 53' <+:R2B' 23' +28 + 5.28' E:+2B25' < 2.280' D!7 ((' 0' "N' S 6' 8' 5J' + 8' ' + ' JB 542' 28"' .= 520' ' :53' ; 0' F' 5. :B6 +2' +:J 8' 42' & B3 +"' +2B 2' J B4G' < B' +28' 9 8828' + 5?9: 3' +28' 429A' . :83G8' 23' G 33: ' 25' 28.= 52' +2' 42E 53' 42' .2' . :B<8' 42' J B42' H<:9B' +2' <B:3GJ2BI0' ' K ' 0' FC' + 58' B25V E2B8G' 88' 23' 8:5' 2582 J520' +8' :53 3:9B52B' &28"' .= 52' ' BB :5' 5U' ' ; 0' N' 5' J B<:5' 42' " ' 58

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' o r (' 12" ! $' # ! , ! "&" (' 2&*' "' O' 1O(4-2' + *' @ &"&' , ! - ' 4' M #(' &"' + *-(' #"' ("4&" + ; "' &" (' . " / %(' "%' &" (' 4& ! 8" (' 2* + + "/ 2" / %' ['' (1" (2&*' "' #1" (@ %' O / 7"' $O"' * / ' - / ' / 1O%%' / #*-%' 40(' &"' 9* ! ' "(2&*' "' 4* ! "' . " / -"' O ! :' O%%"&&-"' (' - / ' . ' 4'-+ O%' #"' 8* / ' #"' #*' %' / 8' 9* ! ' / 8' / ! -2%' 4* ! "' #' 2&*' "' ! / ' "(2"-%' , ! -' $"' O' 4*(' "' &"' (' O' + "(' [' %* ! %' &' 9/ *%-#"' # ' $ ' 4' G)) ' "(' 4-7"*' (' 40%" (' "(@ 2&*' "* / %' #" (' 2" ! $(' #" 4* ! &"' 2* + + ! / "' (-' *' / ' &" (' &" (' (! 44*(' 0 ! &-" ! ' #" (' &" ! (' *' ' YRA' O' 7* ! . "' / O / %"' O%%' / #' O' 0. "2' 40%-"/ 2"' , ! "' &" (' 2" ! $(' (*-" / %' "(2&*(' "&&"' ("2* ! ' 1O' &' (' 4' "+-"' (' 4* ! ((-/ (' "(#*O / (' , ! -' (* ! . " / %' (' $*-(' /"' 4" ! . " / %' (*' %-' #2&*' "' &O' 2*, ! "' 6' Dc?' o ' 2* + + "/ 2"' + / %' #"' + O-' &" (' *8@ (* / (' "(2&*' ! / %' -/ ' YA ' "! :' ("' 4" / %(' (18' 7&-((' "' / %' "%' $"-' "/ %' #" (' 2" ! $(' #" #O / (' "%' &" (' "(2&*' -"' / %' $ ' 2 *+, ' ' * / ' (" -/ ' . * ! (' "(2&* ! -%' 70' #"< #"' *$$" / (' "' U -" ! J' AR' ! (%@2"' " / ' 68. "' &" (' '* (" (' (1" (2&* ! ! ' * / %' - / ' A G' '* ! (' "(2&* ! (' U* ! . "' %(J'
2 ' w' GY
? ' C 0&&* / ' ' 4' * . "/ 3' * , '
* , ' "(407 / ' "%' 4*' %! 7' ": 2- ! %' 5' -%O&' * ,
"(' $*' + "(' 7* , ' * , ' . -" / / "; %' #! ' &O%-/ '
7* , ' #"' 7' 6*' (' #"' "%' * , ' $"' + "' D. *8'
E' &" (' $*' + "(' "/ ' b' * ! ' "/ ' 0 ! ' . -" / / "/ %' #1 ! / "' $*' + "' / * / ' &O%-/ "' 7 , ' * ! ' (-' 1* / ' . "! %' #-@ ' "2%" + "/ %' #! ' 4' #$-: "' "%' #"' ' * ! ' * ,
>* ' 2" (%' #%8 + *& 7-, ! " + "/ %' $"' + "' 6*' (
f ' D"@ [&M' [&M@< E ' ' #2&*' "'
d *' %T' #" 12" ! $' "(' 4* ! ((-/ (' [' 4"-/ "' #2&*' (' NN d Q ! -
"(%' / # ' , ! -(' (" + * / %' "' *-(' , ! "' (! "2"' ; "O ! (' "-/ ' &" (' &-(' [' 4"-/ "' #2&*(' ' * , ' ' R' US1O-
. ! J' %* + ; "' (* ! (' &" (' 2* ! 4(' #! ! / ' %' #40(' 7&*' -" ! : ' "(' $' ! -%(' [' 4"-/ "' #2&*(' ##9 [' + #' (' 4* ! "' &" (' 2-" ! : ' -/ '
2 ' ! ' A' 1" (%@2"' 40(' %*-' . *80 / %' &"' -6* / #"' ['
4"-/ "' #2&*(' Q ! - ' -(' 2*-"' O ! ' 4' "+-"' 6* + + "
' # ' O ' *(' 9O' #-/ (' "/ %' / 2*' #" (' '* (" (5' -&
"7 / "/ %' &" (' 0 + ! (" + "/ %(' ' "(%' %* ! 9* ! (' #"' (' $&" ! (
#"&*(" (' %' &" (' 4&O-(-' (' $* / %' &"' 4'-/ %" + 4(' '
* ! ' ' , ' ?"(' 8" ! : 26"' "6" / %' / ' . 0-/ ' &" ! (' (
$&" ! ' ! ' (' $' O&26" (' #' &*(' 2 ' 9 ' A ' *
40' " # ' 4' YYA
' D#@ [&M@<-*/ 5' "/ ' . "' (' #" , ! O%' "' (8&@ &O ; "(E' ' ' 2%-* / ' #1#2&*' "' #"' (*' %-"' #"' 12" ! $' 1#@ $2" (-* / ' #" (' 4"%-%(' * ! . 0-%@ ' "/ ' ; * ! 260 / %' 40' #-$@ $#' "/ %(' + *8" / (' 1* ! . "' %! "' #" (' 2" &&! &" (' "' "%O' #"' 4& ! (' * ! ' + *-/ (' &O' (*' %-' %' ! ' #2&*(-*/ ' #" (' 4"%-%(' 4-@ 40(' ([/ (-/ %#' "' (("' &" ! ' . -"3' C1 / ' "' '
* ! ' " , ' ' # , ' > , / ' %' O-' 4' M'
#0 / (' 4* ! ' Nf 40 / * ! -((" + "/ %' #" (' $&" ! (
' # 9 ' >*
$- ' D#@ [& ! @<1E ' ' NN I' * / (%' ! 2%-* / ' "/ ' + 0@ , * / / "' -"' &O-%' "' 4* ! ' ' "%" / -"' 0 ! ' 6" (*-/ ' #0 / (' (O' 40' %-"' 044"&#"' &O' 260 + ; ' "' #"' #2& ! (' "' 1"O ! ' / #"' "((0-"' 4* ! "' $O-"' + * / %' "' * ! ' #" (2" / #"' #1 ! / ' ; -"$' [' ! / ' 0 ! %' "' "' ; 0%"O ! ' , ! -' 40' 2* ! %' ! / ' 20 / 0&' ' "(; O@ 9*8"' (' #1 ! / "' #2& ! ('' "(' 4*' %" (' #1 ! / "' #2& ! (' ! . '-' $"' + "' "' &" . "' ' ; 0-(("' 1#2& ! (' "' 21" (%' 40' 0; ' # . -0%-* /

4* ! "' * ! . '-' ' $"' + "' &O' 4*' %"' &" . "' ' ; 0-(("' &O' . 0 / / "' #"' -1#2& ! ("' 2& ! (' #" 260(("' 2* / (%' ! 2%-* / ' 40' %-@ 2 ! &-#' "' #" (%-/ #"' [' "' %" / -"' %* ! %' 1" O ! ' / #"' ((0-"' 4* ! "' 260(("' 40' (* / ' 2* ! ' O / %' &O . O("' "%' &"' (0 ; &"' , ! -' (0 / (' 2"' &O' *6(%' ! "' 0-" / %' ! / 4*' %' ! / "' 70' "' %2' 2& ! (' #"' $! -%' "' #2& ! (' #" (%-/ #"' [' . -#"' "' &"' %' *4@ 4&"-/ ' #* / / #' 40' ! / "' #2& ! (' #"' 260(("' NN 2& ! (' (-+ K 4&' 2"&&"' , ! -' / "' 4" / %(' * ! %' / -"' &" (' "O ! :' , ! ! [' ! / ' ! / ' "! @ / - . "O ! ' [' &O' $*-(' 2& ! (' #* ! ; &"' 2"&&"' , ! -' 4" ! %' &" (' ' "%' / -"' [' #" ! ; 60 ! %' ! ' (' 2& ! (' 20' "#"' 2"&&"' , ! -' / 1O , ! ! / (' ! &' . 0 / %O-&' NN -7' / ' * ! . 0 / %' &" (' #2& ! (' (' #' ! 2* ! "' "&&"' $O-%' , ! "' &"' (0 / 7' 2-' 2 ! &' 4& ! (' . -%' "' 0 ' G M' ?0-(' 0 . 0 / %' , ! ! -&' [26 [%' &" (' #2& ! (' (' #" (' 2-" ! : ' # ' : -' NN i' " + "' #"' 4#26" ' 0' 2' #"' 4-"' "' 4* ! "' "%"' / -"' #! ' 4*-((* / %' 0 + "/ #' 4%' &O' + O' #"
' O I' (' %' (-' %*(%' 2* + + "' 0' '0(-/ ' (*' "/ %' ! "O ! (' (1O ! (("' + ; &"' O ! ' #"' ((' ! (' #' ! ' ! ' . -#"' #"' . "% (' 2&' ! / "' 4' #1 ! "' &"' $& ! / ' "' #"' $O-"' "' 4' 4 -"' / ' #O ! "' ' #' &"' 4' #"' $&' ! / ' US&' ! . "J' (-' $-' / ' 2&' ' &" (' ' "(2& ! (' "' %' $-"' / %' $& ! / ' : . - ' 1"O ! ' ("' + ; &"' O ! ' #"' ((! (' #' ! ' ! ' -&-/ ' &" (' / 7' 0-' #"' ! "2"4%O2&' 40' #1O ! 2 ! / (' 044"&&#' "(2- ! ('
! / ' 7' 0-' #' "2"4%O2&' 40' #1O ! 2 ! / (' 044"&&#' "(2- ! (' , ! -' 04' #(' "(' %"' "' + 4%-' "' (' 1"O ! ' 40' &"' #" ((' ! (' "(%O / %' 7' + "' #"' &O' ; * / #"' #1' + ; 0(' &O , ! &&"' / ' * / ' , ! O / %' #2& ! (' , ! &' "' / #' &' (' %' , ! ' "' $O-"' #"' "' + ! #' "' &"' &' $' &' / '
' ' AM ' 8' O' #"' 4"%-%"' (' -. -"' "' (, ! -' (/ %
"' "' / ! "' (' 40' ": 2& ! (' "(' 4' C ' #0 / (' 1'
>H7* ' 1 ' ' R' (#' -"' %' - ' 4' GAM
' # $ ' O(&O%' 7* , ' , ! -' ("' %' * ! . "' #0 / (' &" (4& ! (' O / 2-" / (' %"' : %"(' &O' *-' #" (' -(-7*%6(' '#7*-"' #"' * ! ' (' "%' * %' ! / O%' 7* , ' , ' "O ! ' ": 2& ! ! D#* / %' &"' / * + ' 0' 40((" [' &O' 2* / (%' ! 2%-* / ' , ! -' 3 7* , ' &O' "' %-" / %' / %E' #"' 7* , ' #"' 7' 6*' (' #"' "%' * , ' $"' + "' D. *8' @' 5' O&&' + ' #* ,
9@ ' D#@ [& ! @<ME' ' *8' #
' D#@ [& ! @<#"E' ' 9N d O' , ! 0 / %-%-%#' #1"O ! ' , ! "' #*-%1' "2" . *-' &O' 260 + ; "' #1 ! / "' #2& ! (' "' 4* ! "' 8' $O-"' "' / %' "' ! / ' ; O%' "O ! ' , ! -' #" (2" / #' *' ! ' 4* ! ' "' / ' $O-"' (*' %-' "' 2"&! -' , ! -' "+ * / %' &"' 20 / 0&' & $O-"' (*' %-' "' 2"&! -' , ! -' "+ * / %' &"' 20 / 0&' &' ' F "' + "' #"' 2* + + "' 2"' O' , ! 0 / %-%#' #"' ; *-(' $&*%%#' , ! -' 40(("' 4"' / #0 / %' #" (' #"' ! ' 1* ! . "' %! ' ' #1 ! / "' #2& ! (' "' ! ' "' ! ' / ' #2& ! (' #" (%' &' #"' ; *-(' #"' ! ' [' . *-' (' "%' ##' [' 4& ! (-" ! (' *$$-2-"' (' G ' &-. "(' GR (*&(' G ' #"' / -"' (' ! ' * ' GAGR' 9
' YI' ?0(("' #1"O ! ' 022 ! + ! &#"' #"' #-(%0 / 2"' #0 / (' #"' (' -. -#"' (' #*' / %' 1"O ! ' / 1"' 40(' O(("< 0 ; *@ #0 / %' 4* ! "' 4*' %"' "' / "' %* ! %' &" (' 4"%-%(' #" (' %' 0-/ (' #"' ; -(' 40' "' 07"(' , ! ! -' %' *' ! ' "' [' 9* ! "' %' [' 6" ! ' "' $-: ' [26' "' 1#2& ! (#' "' / #' "#-' -&' 8' O ! ' O' #2& ! (' &' 8' O' #"' 7' * ! . -. -#"' "(, ! -' (* / %' / 0.-@ 70 ; & " (' , ! "' 40' #2& ! (' #"(
? ' >* ,
\' ' D#@ [& ! @<#E' 3' ' 0-' O' 40(("' ! / ' ; OK %"O ! ' 40' ! / "' #2& ! (' NN O' / -' + ! / -' #1#2& ! (' O' K + "' 0 ! ' + *8" / ' #1 ! / "' #2& ! ("
? ' 2& ! ("I
%' $- ' D#@ [& ! @<#@$E' ' * + ' #1 ! / ' 260 + K 4-7 / * / ' #4 ! %#' + 0&$O-(0 / %' D 1O7O' -*' #&' . #E' #-%' O ! ((-' #2& ! ("O ! ' %' 2* ! &' + "&&"
#7 + 78 #)' #)' D#@ [& ! @<-#' <-# ! 'IE' (+ ' "%' "& ! -' 2"&&"' , ! -' 7*' ! "' / "' ! / "' #2& ! (' "' %' , ! -" / 4"' , *-%' &"' 4#07"' NN& 6' *' %"' #2& ! (-#' "' 4*' %"' #1 ! / "' #2& ! ("
?' >* ,
%' D# [&&-@<1& ' ' "' + "' #"' + ! (-, ! "' O / @ 2-" / / "' 22-#"' / %' , ! -' $O-(0-%' ; + ((' "' / ' / *%"' #"' %' *-(' , ! O' %' (' #"' %*
[' # $ ' 1 : [! 2-2' #"' #: ' "%' O ! 2 / ' O2%-*' / ' #"' ##&-"'
%' ? ' D#@ [&+#@ 1E' 6' "' + "' #"' + ! (-, ! "' O / @ 2-" / / "' Q ! -' / "' (' 4' #%' 40(' [' &O' + #&*#-' "' / ' 40' K &O / %' #" (' * / (' #"' &O' 40' *&"
4B # $ ' @#1' 6*' (' "%' 70*2' 260 / %
%' ' D#@ [@; O / E' ' "' + O' #"' + O' -/ "'
/ 2-" / ' (8 / * / 8 + "' #1#2 ! ; -"'
%' # ,) > 0 - #' D#@ [*@ ; ! @O@9IE' ' "' + "' #107'-2@ ! &%' ! "' 4"' O%-*' , ! -' 2* / (-(&"' [' "/ &"' . "' &O' 2* ! 26" (! 4"' $-2-"&&"' #! ' %' "' O-/ ' #"' [' ; '#&"' (' ! ' 4&O2"' &" (' + O@ %-#' "' *70 / -, ' #"' (' , ! ! "&&"' "' / $"' + "
@PV ?' >* 1,
%' ' D#@ [*@ ; ! "E ' ' "' + "' #107'-2 ! &%' ! "' **' #* / / # ' %' ! 9* ! ' [' 1-/ (%' ! + "/ %' , ! -' ("%' [#2* ; ! "' "%' , ! -' (%' ! / "' (*' %' #"' 4"&-"' #"' $"' #7"' "' + "/ &' 2*' ! ; #"' 4& ! (' &O' 7"' O ! ' %' O' #04%#' (* ! (' ! / ' 0 / 7&' #"' ! / ' + 0 / 26' "' ; * (' &O' %' 0#04%#' (* ! (' ! / ' 0 / 7&' #"' R' #"' 7' #' (' / -. *' #' NN ' , ' "%-%"' (; ' * ! ((0-&&' (' %' 02-/ (' "' / &' "' #"' (' 0 ! :' %' "' #' %' #'$-26"' ' (
%' # ,) 6 #?' D#@ [*@ ; ! @#E' P ' "' + "' #107'-2 ! &K %' ! "' O%-, ! "' 1#2*; ! 07"
' o r (' #*-. "/ %' &" #' *-%' #"' 260 + 40' %' "%' #"' "07"' (, ! O / #' -&(' "7*; ! " / %' (; ' &O' 2-/ , ! -' +"' 7"' ; ' , ' ' %' -. ' 4' G*
' # $ ' -7---' + 2*' / / ! "' / ' %' ! . "' #0 / (' 10 / @ 2-" / ' $' 0 / 20-(' * 1 ' #* / %' &"' (" / (' ("' / ##%' "' @ + - / #' ! ' &"(' -. 07"' (' %' &' (' 4*' (' 0"' *' [' &-' "' g07"' (1" + ; 0%' / %' Q ! -' %O / %' (* ! . " / %' . * ! (' "(2* ; 0%' / %' ?0-/ @ %' "/ "< ; -' / ' . *(%' "' $' O / 26-(" ' < ' ' ' $d' (

#0 / (' ' >* 1 , ' ("' 'O%%O26"' @%@-&' [' ,1 ' ; 0&O-(5' ; O(@&O%' * 1 ' ; O&O8"' 3' O ! %@-&' . *-' #0 / (' &O' 4"' + -#' "' 40' %-"' #! ' + *%' * ' ; [%*' / ' 2* + + "' #0 / (' " * i' O / (' &"' / *+' / *' + O / #' #1 ! / "' 4&O / %"
16"' ; "' [' 1#"' *4-((' D6"' ; ' , ! -' $O-%' (O&-. "' (O / (' #* ! %"' "%' , ! "' 9"' / "' 2* / / O-(40(' & ' 3 '
' ' ' " , ' ' . ' 4' 9 ' * " '
. -" / %' #"' 1O / 2-"*' . "' ; "' * " ' 2' O26"'
$' ' D#@ [*@26"' @&O@91E' (' + ' "' + "' #1OK 7'-2 ! &%' ! "' 2%-* / ' #1#2*26"&"' !
$' D#@ [*@26"' @&#' 3 $' ("' #* ! ; &"' , ! O / #
&O' (8&&O ; "' , ! -' ! -#' "' (%' + ! "%%"' 91#2*26"&&"E' / '
"' + "' #107'-2 ! &%' ! "' 0 + 0((' "' [. "2' #' ! : ' "[%' O ! :' &"(' %-7"' (' 2#' #O&"' (' , ! "' &O' $0 ! :' O#%' "' / # ! ' ("' / "' / -' (' 2' ! 40 / %
b$ ' # ' D#@ [" ! @' #' ' #"E' "' $" Q ! -
O' 4"' #' ! ' &"' 2*' ! ' ' [' , ! -' &"' 2*' ! "' + 0 / , ! "' ##7*#%#'
S"' (---(' #2*' ! '#
%' # " # ?' D#@ [" ! @' #E' P ' 0-/ ! ' 4"' #' "' &"'
% ! ' ' ##7*#%' "' "%%"' *#' ! ' + 1#2+ ! ' "' NN -7 / ' 40' "-&' &O ! 707"' + 1#2*' ! ' "' NN 1#2*(! ' "' / ' J'
. 0-%@-&' ; "(*-/ ' #1"-%"' ' [' 4* ! ' (1#2*' ! ' "' 3' N ?*&' 4*@ 4 ! &O-' "' %' $"(@ ! (-%#
' O I' ((2*' ! "' U##7*#%' "' J' * ! / g
' ?' > ' 4' #$-: "' %' * , ' "' 8' * ,
' * , ' / 2-" / / "+' / %' 2 ! "' 0.0-&' &"' (" / (' 4' *4' #"' 4"' 2"' &"' 2*' ! '
' D#@ [*@$' "E' * ! ' ' D#@ [*@$' *-E '
' # ' #"' 7' *((0' %0 ; &"' (! ' &O , ! "' &&"' &" (' O' %-(0 / (' "' / 2 ! -' %O-&&' / %' &" ! ' * ! . '07"
' ?' O(&O%' * , ' + O' 260 / #' #"' 2 -' 5' . -" ! :' $' O / 3' * ; * ! %-, ! "' *#' 1*' / ' . " / #' #!
2 ! -' 5' #"' O&%"%O0 / #' #* , ' (! &-"' 5' 0 / 7&' '
7*%6') ' / 0.0-&' 0 ! ((-' * ' *; 9"%(' "' / ' 2 ! -' >
: - ! ! (' 60(2 ! / (' $O' #"O ! &: ' #1" (2*' "' * ! ' #"' $' "4"' -"
#*-%' #" ! :' #"' / -" (' / !' "(2*' "' -0
Q ' * ! ' D#@ [*-/ @(*/ E' ' 'O' .0-&' #"' * / ! -(' "-' "+ ! ; &"' 044&-, ! #' [' 1O / 7&' #1 ! ! / ' 260 + ; ' "' O' + *-' "' / ' #2*-/ 9* / ' NN -' "' $O-%' 1" / 2*-7 / ! ' "' #"' 1" + ; ' O ! ' (! ' "' ! ' #1 ! / ' 2*-(#"'
' O I' ((**-/ 3* / ' * ! . "O ! 2* / (%' D' %' 4' YA
' ?' > ' 4' #$-: "' "%' 2* g 5' $*' + #' #"' * 2* + + "' * ' #"' O' 2' 40' &"' (! $$&-' O ! 7* + "/ %O-$
$' ' D#@ [*@&O@91E' ' ' NN I' %O%' #"' 2"&! -' , ! -' "%' [' 1#2*&#5' "/ (" -7 / "+ "/ %' #1#2*&"' N I' O-(' #1#**&"' #' *-, ! "' , ! "' 408"' 260 , ! #' #2*&-"' ' "2* / (" -&(' '* ! / -2-40 ! :' ##%' "+ -/ "' #"' 4' -: ' #1#2*&O7"' #0 / (' &" (' #" / -" (' ** + + ! 60&"
' O I' (' &' "/ . *80 , ! "' -' ' -(%*%"' "/ ' &! -' 4080 / %' ! / ' %' #(' 6* / ' 'O ; &O' (O&O-' #' 4* ! ' 1"' (26*&O7"' #"' (* / ' $-&(' * & 7' G ' / ' 4" ! %' 2* / %-/ ! ' ' [%*' %' %' + 4(' 1" (% ! #"' / * / ' 40(' 1" (26*&O7"' ' 260' 7#' #"' 2"&&"' (' 4"' (* / / "(' , ! -&-&' 2* / -"' / %' O((-(%"' 4* ! "' &"' ! "' -. -' "' 044' "/ %-((07"' #"' + "(%-"' "' * ! "' (2*@ &O07"' *' ! -' ; -"' / ' 4* ! "' &"' ((2* ! -"' / ' &"' ! (' + 0&O#' -"(' * ! & ! + ' ' 4' GG B
#7 , + 0 ' D#@ [*@&[@%' 1E' (' 22&#(-0(%-, ! "' #0 / (' &" (' 20% ; ## ' O&"' (' &%' &O' 4'-/ 2-40&O' $*' / 2%-*' "' (%' #1 ' ! @ (#-7 / "' O ! : ' 9"' ! / ' "(' 7" / (' , ! -' (' #' a%-/ "' O ! ' ("' . -2"' #"' 1 7&-(' (' &"' (' 6 ! + 0 / -%#(' "%' &" (' #' . *-' (' #"' &O' 4' *K $"' ((-* / ' , ! ! -&(' . ' &"' / %' "' + ; ' 0 ((' "' NN 60 / *-/ "' , ! -O . 0-&' / #' 4' #; ' #"' 1*; &-7O%-*/ ' #' "' (-7 / "' 7' O%' ! -%' "' / $' %%%%' &O' 46-&*(*46-"' "%' &"' (' &"' %%' (' ; ! + [-/ "' (' [' ("(' 2* / #' $' #' "' (' %' O ! :' 40 ! . "' (' #22&-' (' #! ' *80 ! + "
' O I' (/ 8' 0. *-%' 7&-(' 20%6' #' 0&"' "/ ' &O , ! "&&"' / 18' "' %' [%' 48" ; "/ #' O$-' "%%#' 4* ! "' (0&O-"' #"' 2" &! -' , ! -' "(-7 / "' *-%' &"' (' &%%' "' (#' #-/ 0-' "(' %' ! / "' O ! %' 4* ! "' 2" &! -' , ! -' . 02 , ! "' -%' [' 1" / ' (' -7 / "' + "/ %' #"' &O' %' "&' 7-%' &' 4' + "' 7-%' &"' 4' "' 1"' ' "(%-&' %' 2*&O(%' "' ' "(' ("' $-&-' &" (' *' %' "(%' 260 + *' 1"' , ' ' 2*&O(%' ' #"' 1#2*26"' *70&' ' c ' < *
8' O' 4' AMA' #0 / ('
? ' O(&O%' * ' #O ' #2*&"
$' #7 , + 0 ?' #' D#@ [*@& [@%' -"E ' (' 60' 7" ' "' + @ 4&*-' #1#2*& [%' "
' # $ ' >*
' D#@ [*@ E' ' ' ' I' %O ; &-((" + "/ %' *#' 1* / ' "/ ' (-7 / "' 4' #' (' #' &"' (' #1#' &"' (' %%' "' (' #"' (' 2-" / 2' ' (' #"' (' 0' %(' ! . '-' ! / "' #2*&"' ' ?0&%' #1#2*&"' 2*&"' #"' #"' (@ (-/ ' 2*&' 4' -+ 0-' "' ; 4' #"' (' "' / *' "%' #2*&"' (' + "' (' 4* ! "' 7' 1O@ 0-"' / %' , ! "' 4' #"' (*' (%' "' $"' ("' . -' #2*&"' (' 4&O-(-' (' + 0%#' -' (-+ 0-' 26' #"' ; -"' (' 7"' / -"'
26' #%-"' / / "' &' 2"' (' #2*-"' (' -(%-%' ! %#' (' *0%%#' 2* + + "' / 2"' "' / %' #! ' ! :' .--' (-#2&' "' 40"' 0(0&&"' 40' &"' (' "' / $O / %' 40 ! . "' (
' *&"' (' 260' -%O-, &"' (' -(%-%' ! %#' 4* ! "' / (' -7 / 2* ! "' 0 ! :'
/ $O / 26-(' [' &-' "' [' #2-' "' %' [' 2* / 0-%' 0-' + "' "%' (' #*' ! (' #"'
. -"' "' ! 5' -&' $! %' $' / ##' / ' $ GMBM 40' ! / ' + - / - + ' #1 I'
+ - / (' &"' ' O' ! -' NN ' / -"' #2*&"' / "' (-7 / "' ' / (' &"' 2"' ! ' #' (' -(' 7' #' $%' 91' ' ! :'
%' / -' #2*&"' ' ' - 1 ' : ' GM NN % ' "/ ' %-"--#' O-%@ #2*&"' 2' "' (%@[#-' 0' -&' (0-&' %' #' (' ; -"' 2"' &O' NN "/ . *80'
, ! "&, !! ! / ' [' 1#2*&"' &! -' $O-"' ("' / %-' (* / ' -7' / *' 0 / 2'

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f 'D 1E DM@['-@-E' 'N S"%"'(!;-%"+"/%
!/' 7'0/# 2'-' !/" ":2&0+0%-*/' 0' 2"%%"'.!"'-&' (1M@
2'-0' "% (1"/$!-%' S0-' 260/7'" #" 2*!&"!''9"' +" (!-(
M*'-M"' 'T* '-'M' '(1#2'-"' "% (0' (!-%" "
4"!" #1!/' 40'"# (*'% 4'"/# 0!((-%$-% &0 $!-%"' +' 1'
'B' 1"//"+-'/*!(#$**!.'"'-& (1M2'-"'-&'+"/02"'
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' 1"/$"' (1H+"%0!' ;'!-%#" "4%!"' "/"
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'S 0-%# ,' , '.--' ?'#" *8*/' '"/2*/%'0'
?' #" 0'L5 -& (1 2'-"5 ?' #" 0'-(.0' 0' &!-'"%
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"/ʼ$!'"/%"$$O2H"(ʼ ʼ2 ʼGEʼNNRI Q!-ʼ/IO
40(2*/("'."ʻ (!$$-(0++"/% (O 4'*4'ʻ "+4'"-/%"ʼ /ʼ
20'O2% 'ʻ"$$O2#ʼ NN ʼ("ʻ #-% 08((-"/ʼ!/ʼ("/(ʼ0/0K
&*7!"ʼ#"(+*%(ʼ#"(":4'"((-*/(ʼ !O/#!/ʼ +#'-%ʻ
("+;&O;-ʻ U&O 9!(%("("J 2"((O#!0440'%"/-ʻʼ &O &O/7!ʻ
&O%-/"ʼ,!O/#&"(+*%("$$O2#("% 2*++ʻ !(#(40" &ʻ
&*/7 !(07ʻ 8 4"'#-'"/%&"!ʻ ("/(4'*4'"ʼ 9
! ʼ ʼ$&* ʼ0 *ʼ4ʼ ::--ʼNMFʼ '#("/%O/%&ʻ
9/*--9(#ʻ (!ʼ$O2ʻ 4*((-;&ʻʼ "/ʼ 40'&O/% #!ʼ2*'4(*!ʼ
#ʻ 40'%-"(#!ʼ 2*'4(ʼ ʼ/1#%O-% 40(0(("< "$$O2#ʼ "% &ʻ
2*!4 10%%"-7/-% #O/(ʼ &ʻ ."/%'"ʼ ʻ (*&#O% O &"(
ʼ #40!&"(;-"/"'&$O*#"(
Hʼ \ʼ ? ʼD#@$O@("@+O/Eʼ ʼ UN X 2%-*/
#1"$$O2"'5 '#(!&%O% #ʻ 2"%%ʻ O2%-*/ʼ 1"$$O2"+"/% ##
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ʼB "'%ʻ #ʻ 1"+4'"-(%ʻ 4'*4'"ʼ 1"$$O2"+"/% #"(
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+*'*%"/ʼ ."'%!ʼ #ʻ +*/ʼ O!%ʻ-%#ʻ "%#ʻ 2"&&"#ʻ +"(
2*&&#7!"(ʼ O!ʼ ʼ *ʼ >,/ ʼ%ʼ-.ʼ4
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%M% 1"$$O2"'H /!2-(ʼ A *1 ʼ /-ʼ Yʼ NN ;(*&!@
+"/%ʼ ʼ"$$O2"ʻ "% 2*'-7"ʻ (0/(2"(("ʼ -/7% $*-((!ʻ
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7'#'ʻ /(4-'ʻ "/ʼ +*/("(4'-%ʼ ʼC ʼS*!ʼ
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HO2"ʻ -"/%#(O 4&O2"ʼ ʼA ʼ ʼ$
Q!"&&"#%'O/7ʻ 4#&"!ʻ ʻ (*/ %"-/% %*!% # 4
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#'O-ʼ %*!%ʻ +O .-ʻ #!O.*-ʻ .! ʼ 2"% O-'(!4"ʼ;ʻ "%
+"/O20/% ,!ʻ &O +*'% +#+ʻ /!O.O-% 4!ʼ "$$O"ʻʼ
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"% 4*!"%"% +#'-%'"ʼ ʼ---ʼ ʼ %"'1"(&"#-'ʻ
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Q!O/#9!O!'O-ʼ #ʻ ("(+O!:ʼ "$$O2ʻ 1-/$O+-"ʼ-/ʼ 2'@
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,!-%%"ʻ '#40'ʻ 2ʻ +0&6"!ʻ "% 9ʻ &!-ʼ O-ʼ %*!.#ʻ #"
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,!" ʼ-/ʼ %ʻ- ʼ ʼ--ʼ O '"2*//O-(K
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'O1"$$O2"'O 4&!(%#%% #ʻ (O +#+*-'"ʼ-/ʼ ʼ-ʼ
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ʼ%ʼ "% -&&!(%%'"(#'O((-/"/"%%ʻ!.#'O-!."((f/
#"(2"/#O/#%ʻ %#'/ʻ "$$O2"ʻ %*!(("(2'-+"(ʼ9
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-ʼ"'("'ʼ-/ʼ- ʼ ʼ-ʼ 2"%(4'%2%//"4*!((*/% &ʻ
&*/% "$$O"ʻʼ ʼ"(%#++#'O-'"(.+!:ʼ,!-ʼ+1(O-"/%*$@
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&"< #"?+"#1 "!#-2*!'%ʼ"&.*!(.!&"<!/ʼ'O22%+@
+*#ʻ+"/% "/ʼ $*'+5-& /18 "/O 4*-/%5 &ʻ %"+4(
"$$O2"5 */ 6'"%-%ʼ ʼ/ʼY*P N ʼ&-4(("ʼ1"+@

4*'%"'#!!/'$O,*/,!"&2*/,!"ʼ #&"$O+"!:ʼ *'O2"
-"/% #!"$$O2"ʻ #2&O% #"(6#'*("#"(O'O2"ʼ/!ʼ
#*/ Nʼ Yʼ #*/2"ʻ "(% "$$O2#40"&"ʼ$-&(#"ʻ ?O!K
'-2"ʼ ʼ *ʼ---ʼ 1"(%!/"ʻ;"&&"ʻ 26*("ʻ ,!"ʻ
#ʻ ("&O-(("ʻ "$$O"ʻʼ #O/(!/ʼ&-"!'*# 1*/O O$$O-"ʼ
'GAMʼ *%ʼ"ʼ 20'#-/O& .*!(O!'O-%!/ʼ 4"!'"$$O"#"ʼ
(-/ʼ)ʼ "(?##"(#%O-"/% "$$O2#(40"&O 7'O/#"!ʻ
#"('*-(#"ʻ O;8&*/"ʼ ʼ-ʼAʼ */%&O;&O/@
26"!@"$$O2O-% 2"&&"#ʻ #ʻ &O /"-7"ʻʼ ʼ9 ʼ-ʼ O "$K
$O2# &O 7&*-'ʻ #ʻ %*!(&"(2*/,!#'O/%"(#'O-%"(
;"O!# "$$O,O-% 2"&&"#ʻ O&84(*ʻ-/ʼ%;ʼ.ʼ *!% 2"
,!-ʼ.*!("$$O2"ʼ;&"((ʻ .*%'"ʼ *7!"-&ʼ ʼ
ʼ *!(/ʻ 4*!.ʼ<(*!$$'-ʼ2"!:ʼ,!-ʼ.*!("$@
$O "/%ʼ-/ʼ%;ʼ#ʼ ʼ"!:ʼ 6*++"ʻ "$$O"#'"/% 40"
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ʼO/(1O%#"(."'("(21"(%%*-,!-$!("+*/+O%&%'5
Sʻ %1"$$O,O-ʼ (O/(%ʻ '"/#ʻ 9O&*!ʼ
26-&&ʻ #%O-% 4*#%-,!ʼ ?O-(+*;&"!ʼ/*!(1"$$O,*/(ʼ
-/ʼA ʼNN iʼ "'+ʻ #1"(2'-+ʻ "% +-&-%O-'"ʼ $$O@
2"ʻ &ʻ 2*'4((!/ʻ #40!&"ʼ ("%ʻ/-ʻ;-"/ʼ#ʻ 2##%ʼ#ʻ
'*O/-#'"O 4'#("/%"ʻ &ʻ +*/(#"#'ʻ ("$$O2#(1O#."'@
(O-'"ʼ *!ʼ O '"/%"'ʻ #O/(1O-7/"+"/% #!ʼ '0/7
ʼ Iʼ 1"$$O2"'ʼ/ʼ $-%ʻ"$$(-2#ʼ "/&".# 40'$'*%%%@
+"/% *!ʼO!%ʻ"+"/%ʻ 2'08*/ H1"$$O2"ʻ $O2-&ʻ+"/%
&& 1#%"'ʼ!!/ʼ O 1O!%ʻ 1O440'"/2"ʼ 1":-(%"/2"ʼ &(
(1"$$O,O-"/% !!/ʼ O!%'ʻ U-&((1O7%% #ʻ (4"2%ʻ(#O/(
!/ʼ (*/7"J5 "% 260,!ʻ -&&!(-*/ #"*/;&O-% +*/ "$@
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;#&O(% 2"ʻ 4*'%O-%ʻ ,!!&&ʻ (1#%O-%!'O2#ʼ LI ;"O!@
2*!4 #"ʻ (*/ &!(-'ʻ "% (1"(;-/ʻ "$$O2#ʼ
3 *ʼ ʼ?O-(%*!(&"(4'#%#(1"$$O2"/%O
%O .*-:ʼ ʼ& ʼ ʼ*(4'"+-"'("(/%-+"/%%(
#*-."/%"%*!(1"$$O2"ʻ-/ʼ- ʼ&ʼ ʼ NN -'ʻ +-(
#ʻ M%"ʼ /#7&-7#ʼ O'&"(O&%4!;&-2#ʻ#".O/%,!-%*!%"
(1"$$O2" ʼU, ʼ--ʼ NN %ʻ #*!;&-#ʼ 1"$$OK
2"ʻ #ʻ &O +#++*-'"ʼ NN Aiʼ -(40'O-%'ʻ &ʻ 4&!(
60!&'O/7 &O 4*+4ʻ &O 4&!(.O-/ʻ 1"$$O2"ʻ O!ʼ("!&
O(4"2%ʻ #ʻ &O 7'O/#"!ʻ '*+O-"!ʼ# ʼ--
Bʼ !8*/(ʼ1*+;'"ʻ (1"$$O2"ʻ "% 1O!;ʻ .O 40'O%%!ʻ
ʼ/ ʼ- ʼ3 ʼ ʼ--ʼAʼ%&O +*%%-##!ʼ2-"&
40--((O-%'"%&O;-("ʻ #$O--&O-% #O/(&O .*-&ʻ-++K
;-&ʻ %!"%"-/&"ʻ 7'-ʼ *!%("-$'"(+ʻ2*!'O-/%ʼ"% (1!(*
"!ʼ "!"(2*!!ʻ -&&ʻ 2-"&ʼ "%ʼ 1"O!ʻ %%ʼ(1"$$O,O-%
O&O$*-(ʼ ?ʼ ʼ--ʼBd 1#2&-4("(*-@
+#+"ʻ &(1"$$O2O-% 4*!'$O-'"ʼ;-&&ʻ (*/+*-ʼ NN "ʻ
#ʻ (*/ʻ +4'"-% 4'*4'"ʼ "(20'O"%#'"((1"$$O2#@
'"/%ʼ)d "'+"#1"(2'-+"ʼ "4'#("/%"ʼ;-"/ʼ#ʻ O##ʻ
"/ʼ*$$'O/%&O +-/#'"(!"$$O2"ʼ NN "'+ʻ +-&-%O-'"ʼ
$$"/("ʻ #O/(!O-7/#"(-'"ʼ NN "'+ʻ +O'-/ʼ
/ʼ.O-((""O!($$O2"ʻ!O/#!%(%*/!!"/%*!'#ʼ&ʼ4'#@
(*/ʻ $&O/2O/%ʼ*!ʼ/ʼ;O/%#'O/($*'+#%%#%%%%O+"/%ʻ
V@ %ʼ %%ʼ $$O"ʻʼ
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,!-':4'-+O("/%ʼ*O!(O #!"/#-/%&O ;O/#""((1"
#'"/%"*$$O2#ʻ"ʻ#"#!#-/%!#'-"!%!'O/4'%-(#%#
!ʻ "% ;'-&&O-%ʻ+"/%%+*-/(!/ʻ-/O(*!.-%"/#%"'
"%2"%/%#-!ʻ!/ 1O+*"-%#ʻ"ʻ#"(/*%("+"/% "!ʻ
!/"ʻ'O-%ʼ #!"/2"

$ʼ Lʼ ʼ "-"/%$O-%&-$-&U&"($-&(J#ʻ&!-ʼ "/ʼ
4"'-&5 "/ʼ !/ʻ 7"/"'O2-!/ʼ("-%"($O2"##&-!/+(#ʻ&!-
1 ʼ" ʼ4ʼ M) NN+!!(ʼQ!ʻ ,!-1ʼO ."!-&&ʻ
9!("+"%%ʻ "(*&"+O&ʼ(-,!ʼ/;-/"$O(("ʼQ!ʻ 40"
;-"/ʼ*--+O-/%"(%O(*(ʼ #(*/2*!!"/%+O'"%-2"%O,/:-
!ʼ ʼ *-!ʻ "ʻ*O-'"ʼ "O-"!ʼ#!"2!ʻ
+1"(2&O-'"ʻ %&*;!(2(!2"/ʼ1"$$O2"ʼ
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[illegible]

[illegible]

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;*+ + ''(' 2!''(%@;@#-''' %*!(' 2''!:' ,!- (*/% 0/' ''$-%''%
."%!''!:' ''% /*/' 4*-/% 40'' $O!:@(''+ ;&O/% /- (''!&''@
+''/%@40'' *4-/-*/'
'#7/''' ''/' ''$$''% ''(& +*/' +0&%''
7,??'&
$*' +''(' &''(' +*''!'(' #'' (''(' (!9''%(' ''% ''/' ''$$''% 4*!''
0((*! -'' (*/' 0.0'-2'' ''/' 4-&&O/%%*!%'' &O S!##''
''04%-'''' A ''!4&'' &e26'' ''/' ''$$''%''% /#
4*!'' 1''(2&0.07'' 0'#- 2*/%'''
+0#0+''' ''/' ''$$''% %1*'02&'' ''(% 022*+4&-' &'' 2-''&''(%
(0%-($0-%' ;'';' + ' Y' $&(' 2'*-'*/% ''/' ''$$''% +#@
''/' ''$$''% ,/- 16*//''!'' #'' .*!(' (!-.''' -/' $''
9'& '$' 0'' ''$$''% -&' /18' O' 7!'' #''!:
9>&!'' 2 N /' ''$$''% ('' +''% O!((-' %'#(@
(*!.''/% ''/' %''%''#1!/'' 46'0('' 4*!'' 0//*/2'' ,!!*/'
.0 #*//''' !/'' 4'''!.'' #'' 2'' ,!!*/' .-''/% #'' #-''
4*!' &.*807'' ''$$''% #'' (1-/(%'!-''' O' 2''% ''$$''%'
4*!' 2''% ''$$''%' /' /'.!'' 4*!'' 1'':#2!%-*/'
(*/% &''(' $''+''&&''(' N &!(' #'' 40''*&''(' ,!'' #1''$$''%'
#-% #'' ,!''&2N!!!/' ,!- 4'*+''% 4&!(' ,!!-&' /'' %-''/%
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$''2%' &''!'(' #*+-/0%-*/(' ''/' ''!((''/% 4&!(' #!'''
? 0 0 $02''/% 0!2!/' ''$$''% U02%''J #''
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4' M ' O I' (% U&''(' (''-7/''!'(J +-''/% 4&!(-''!'(
#''.-(''(' ''% 4'''(26''+''/(' 0.0/%' #''(,!''&&''(' /!&&''(
/'' .-/''/% 1''$$''%
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0.0/% ,!# &''(' +''%%''' ''/' ''$$''2%' -/' !
+0#*/'' 080/% $O-% (*/' ''$$''% #'' ''%-''' (' #''!:
2*'4(' 4''/(0(-4''!'#'' &!8' ,!!-&' (''%'*!.0' ''/.-'*//#
#1!/' 7'0/#' /*+;''''#'' ?0!$''(' ? /''
+'' 2*/.-'' !/' ''$$''2% U02%-*/N (- &-*-7/ '#'' +O /0K
%!''' ?)M' 1''$$''2%U' (!&%O%J ''/' #''2*!.''-% &O
$*!'';''-/ -' & /' .''/O/% -& $-%%*!% 4&''-/#''' ;''O!:
''$$''%(' 20'' -& 8' 4'-% $*'2'' 4-02''(' ,!'' %''/*-''/% &''(
6!7!''/*%(' #*/% ?0(2*/' ''/' $!%!/'' '
'% /-' 4' M' #0/(' O&#'' /1/.*-% 40(
4'-(' ''$$''2% U-/% ' %J 0! +0&6''!'' ,!- ''(%*-% 0''-.
4*!'' &O 4''''%''#!'/0.-'' A ' % /' 4' R'
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'# $%' '*.''/3' 20%O&' * ' ''(407/'
* ' 4*'%!7' -%O&' C' #!'&O%-/' *,
#'' * '(!4-/#'' ''$$''2%!'' #'' 7' ''%
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% D @$''!@&&O@91 && + *!-&& ''(E (' P
8/*/8+'' #1''$$''!-&-0-(*/' &N 2%-*/' #'' 2 !4'' &''(
$'', -&&''(' O/($-&'' &'' 4*!'' $0-'' %/#'-'' &''
$'!-% ''% &O-(('' &'' (*&''-& &!- #*//'' &'' 2*&*/(
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-.*/' @$''!@8 @<*/E' 2%-*/' #1''$$''!- ''$' 1''$I'
$''!-&&O-(*/' #'' &O .-7/''
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''(% 1O''026''+''/%' #''$*&-O%-*/' ''(% &O 26!%'' /O%!''&&''
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& $-' D @$''!@&& ' && '' WW +*!-&& ''(E'
40'%' ' 4*!-&& '#'' $!-&&''(*!'' #'' 4 %O&''(' /''
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&- D @$''!@&& ' T' % *!-&-$-''(' ''% /*/'
@$''!@8''E' /' *' N I' %''' 0''02;'''' &''(' $''!-&&''(' &''(
4 %O&''(' $$''!-&&'''' !/' 2''4' #'' ,-7/ ' 10-+ ;&'' $
0440'0%' ' +''(' 8''!: ''(' #*-7%(' #-(%'0-%(' ''$$''*-&-''/%
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+:<<2:9 25 <B:E 253' ! .= 520 G 332B 2 R 2.3B ?92
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' +< 42 R 2.3B ?920 +9 42 ;<:54RB G+2 ?92 &:5
89<<:82 <B:49 B2 +28 <=R5:B5\528 42 BR 2.3B . 3R'
' 258 :5 R 2.3B ?920 ?9 53 3R <+98 :9 ; : 58 . :58 *
4RB G+2 4&R 2.3B . 3R ..9 ; 9 R20 \' 9B 2 84B ?2' IL K
+ 5.2 R 2.3B ?920 << B2 + ; J5R < B :9+: G <:9B
D D 32J B2B &53258 3R 428 33B .3 :58 23 BR<9+8 :58 R 2.*
3B ?928' IL + 5 2+2 R 2.3B ?920 G+92332 ?9' 2 44*
D' %J J2 4&95 .:549.329B ?9 54 N5 +9' <BR82532 952
' *89G83 5.2 .:549.3B .2' IL JB2332 R 2.3B ?920 @23 42
& 6+9 ; \B2 8&4+ 5. 53 4&952 <: 538 <+ .42 890+2 .:5*
0' *49. 29B 4&952 ; .= 52 R 2.3B ?92 25 ; : E2 ; 253'
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D' ' ?92+2 +28 .:B<8 R 2.3B ?928 ; 5 2832=3 +29B 5K
+925.2' ' :9B 53 R 2.3B ?920 4RE2+:<<2 ; 253 .:5'
3 533 4&R 2.3B . 3R 89 E 53 +2 + ; R3 + ?92 ?9' @: 53
D' +280 429A <4+28 4&952 < +2' IL 2.:9882 :9 .: ; ; :3 :5
R 2.3B ?920 82.:9882 <+98 :9 ; : 58 4:9+:9B2982 4:5*
542 < BBR 2.3B . 3R' IL B .3 :58 R 2.3B ?9280 ; 5 \B2
4& 4 ; 5 83B2B &\+2.3B . 3R0 ?9' . :58 838 \' <B: ; 252B0
\' 952 3BG8*<23 32 4 83 5.2 42 + ' 89B .2 49 .:B<8
.:9E2B32 4&952 + 52+20 95 .:549.329B R 2.3B ?92
32B ; 54 < B952 G:9+2 4&95 E:+9 ; 2 ; 44 4.B2' IL 5
0 R 2.3B ?920 ' G 5 4&4+2.3B . +4 ?9' 8& 4 ; 5 83B2 25
6 V 8:+ 53 +2 < 3 253 23 25 +2 ; 233 53 25 .: ; ; 95 . K
%-*/' 0 "2 &" 2*/#!2%'!" #!!/" +026-/"'NN /-+0!:'
8-"2%'-,!"(' 2"!:' ,!-' ##."&*44"/%([' .*&*/%# #"(
*' <=R5: ; 4528 R 2.3B ?9280 + ' 3:B< +20 < B 2A2 ; <+2'
@L0 4 RJB <=2 4+2.3B ?920 E:R' : # 0 IL 9*
&'35 2B2 4+2.3B ?920 +9 ; \B2 <B:49 32 < B &4+2.3B . 3R
b 6 23 ?9&:5 2 ; <+: 2 25 .2B3 528 . B.:583 5.28 <:9B
R4 B J2' 0 J' $9'2A. 320 .: ; ; 2 3 BR 2.3B . 3R'
> ; <B288 :5 R 2.3B ?92' +:?925.2 R 2.3B ?92
' # $ ' O"I 4*. (!22-/' *' 0+ ; '"%0 /"' #(
' &" %"+4(#" 60&"(v ' 0/(0.0/% /*%'" */
0.0-% '"2*//!' ,!" &" (!22-/' $'*%%# 0%%-'0-$"% '"4*!(@
H (0&%#"(;'-/(#" 40-&&" #" #7 '"(40'2"&&"(5 '"% 4&!(
6' 3 B4 :5 ' 5:B5 ; 4 :B.2 R 2.3B ?92 3:9328 +28 .3 :58
6b 5 +:J928 \' .2+28 42 & ; GB2 @ 952
@ V 3 + 'QR* R*3B *M *GB/0 6' 2B ; 2 42
<=R8 ?92' 9' 283898.2<3 G+2 4& .?9RB B+28 <B:<8 4348
R 2.3B ?928' IL J' 98.2<3 G+2 4&43B2 253=:98 8 ; 4
! # $ ' > *
3' + 0 'Q4* R*3B *M 50 M 5* /0
VR' 2B ; 2 42 <=R8 ?92' $9' 4 2.3B 82' IL J' $9'
2 ; <:B32 23 253B +52' B:+28 4+2.3B 8 5+28
'h4* 2*3B *M *8 :5/0 ' L'+] .*
;3 :5 4&R 2.3B 82B' 43 3 4&95 .:B<8 4+2.3B 84' IL * <K
<+ . 3 :5 42 4 4 ?92+2 ?9&25 893 + '8:9B.20

< B :<<:8 3 :5 \' J +E 5 8 3 :50 ?9' 283 &2 ; <+: ' 42
BR 2.3B . 3R 42 .:53 .3' IL +2.3B 8 3 :5 + :. + 820 ; 4*
3=:42 4&R 2.3B 8 3 :5 ?9' .:58 832 \+ ; 32B+ ' <9 88 5.2
R 2.3B ?92 4 58 .= .95 428 :BJ 52808 58 < ?92B 5'
5. 82B + ' <2 9' IL +2.3B 8 3 :5 83 3 ?920 <<+ . 3 :5
; 44 . +2 42 &R 2.3B . 3R 428 ; .= 528 \' B:332 ; 253
' # $ ' *
' 'QR* 2*3B *MR0 M42/0 " ' " '
2549 R 2.3B ?92' 5 .:B<8 4+2.3B 8R' IL J' +2.3B 8R
< B .28 < B:+28
' @R* 2*3B *M4/0 W' : ' < *' !233B2 25
4E 425.20 2A. 32B + ' <B:<B 23R R 2.3B ?92 428 .:B<8
< B+2 B:332 ; 2530 +2 .:53 .30 + ' .= +29B :9 + ' .: ; K
<B288 :5' ' +2.3B 82B ?92+?3 &950 952 .: ; < J5 20
+29B 4:552B + ' .: ; ; :3 :5 R 2.3B ?92 9 ; :R25 42
+ ' G:932 +2 42 2R42' IL *' J' B2 89B &28<B 3
952 ; <B288 :5 E E2 ?9' &2A +32' :5 2A2 ; <+2 +28
R 2.3B 8 ' 2 G2 9 20 .28 ; : 58 8 ' 253=:9*
8 83280 23 < B*428898 3:93 :B 5520 R 2.3B 253
& ; J5\3 :5 4& 8X +40 ' :B 50 3 ' : ; G 25
42 : 8 9<B48 42 + ' <+98 G2+2 58 E:8 G 5?9238
@& ' <B28 42 .=2M E:98' \' 42 ; :5 .:29B @ + 8*
8 3 &R3 9.2+ 2 :53 + ' J 4 E:98 4+2.3B 8 3 3$980
' :5.:B5 30 + ' F* &4+2.3B 82B0 5' B4[+' 2*
E25 B 4+2.3B ?92' 2B3 58 .:B<8 8&4+2.3B 8253 < B +2
B:332 ; 253' L' J' &253=:98 8 ; 2B
-' (!' :R' I <-
3' 8" ,* 0 ,'Q4*+4*3B *M29B/0 ' ' 2B ; 2 42
<=R8 ?92' 2+9' ?9' 4 2.3B 82' 3>' !242.5 ?9 ' 2 ; <+: 2
&R 2.3B . 3R .: ; ; 2 ; :R25 29B 3
(!' * '
j' ' 8 J5 +2 4 4 ' 23 E 253 4&2+2.*
' '89..5 0E:R' I G
3' * ! ' Q4* R*3B:4* ; 5/0 80 '
2B ; 2 42 <=R8 ?92' 2B 4:9A 3B 58 :B ; 4 25 ; 53
9 ; :R25 4&95 .:9B 53 4+2.3B ?92' IL R+ 54B242 2B
4:9A0 B2.:9BGR 25 2B \' .G2E +0 93:9B 49?92+ 283 25*
B:9 R 95 F' 42 .9 EB2 .:549.329B B2.:5E2B3 42 8: 2
' ' +2.3B:P D0
3' * # ! ' QR*+4*3B:*.= * ; 2/0 ' ' 5K
82 ; G+2 42 <=R5:B54528 .= ; ?928 49' \' 428 5K
+925.28 R 2.3B ?928' L R83R ; 242 .= 35 2 4 58+2?92+
+ ' 3=4:B 2 428 <=R5.B54528 .= ; ?928 B2<:82 89B
& <<+ . 3 :5 .:5592*428 + : 8 42 &4+2.3B . 3R
' ' 23 ' , D D b
* # ! $ ' QR*+\\4B:*.= * ; *\&/0 4P'
9' ' B <<:B3 \' B4+2.+B:*.= ; 20 & ', D
0 3' 'QR*+2*3B:*46/P ' ' 2B ; 2 42 <=RK
8 ?92' ; ;' 4:554 9A .:B<8 89B +28?92+8 8&2 +022392
+ ' 4R. : ; <:8 3 :5 = ; ?92 < B + ' < +2' &4 2.3B 42
<:8 3 E2' &R 2. B:42 52J 3 E2' + b *
' > * ' 23 .=2B3 50] E: 2
XB ! $+> QR R*3B:*4 *5 * ; *\&/0
6' 3 d 2B ; 2 #" <=R8 ?92' 93 ' + ' <B:<B 23R 42
4:552B + 29 \' 95 . 9B 53 4+2.3B ?92' 9' 283 <B:*
49'3< B 5 .:9B 530 4+2.3B ?92' =45:35R528 4+2.3B:*
4R5' ; ?928' L/ 6 &L ' B3 242+ <=R8 ?92?9'3B 34
42 & .3B:5 B4. <B:?92 428 ; 3 538R 2.3B ?928+28958
8 B+28 93B280 23 42 .2+2 428 .:9B 538 89B +28 ; \538
!0 # $ ' > * ' 23 4 + ,
;3' S * (! ! ! ' QR* N*3B:*4 *5 * ; *
8 ; &/0 ' ; ' 2B ; 2 42 <=R8 ?92' 582 ; G+2 428 2+ 238
<B:49 38 < B &4+2.3B :+34 25 ; : 9E2 ; 253
' ' +2.3B:P ' 23 4
' * $ ' QR* N*3B:*J +*E *
5 *\&/0 4P' 2B ; 2 42 <=R8 ?92' $9' ' B <<:B3 \' + '
< +2 E:+3 ?920 \' 828 2 28
K' ' +2.3B:0 ' 23 / + ,
3' * (\+ ' Q* \\B3B:'*' J +6E *
5*8 ; &/P ' ' 2B ; 2 42 <=R8 ?92' 582 ; G+2 428
<=R5: ; \528 R 2.3B:*J +E 5 ?928
0 D-' (!' * ' ' /
3' @ 8" , -J 'Q4* R*3B:*@R*5&/0 6' $9' <B:*
49 3 BR 2.3B . 3R' << B2 + R 223B:J252 428 <: 88:580
+29B << B2 + R 2.3B ?92
' , -' (!' > * ' 23 JR52 <B 8 ; <B:<B2 ; 2530
4 58 +2 + 5J J2 4 4 .3 ?920 <:9B ?9' 25J254B20
R2E 5 E:9+ 53 4 B2 ?9' 283 25J254B4
3' 7 ' QR* *3B:*@R*5R*M/ :9 :
' QR*+*3B:*@R*5 2/0 ' ' B:49.3 :5 #8K
2.3B . 3R < B +28 3 8898 E E 538
' # $ ' *
3' 8" , -J , #.? 'QR*+*3B:*JB * /0 ' ; ' 9K
329B ?9' R.B3 89B BR 2.3B . 3R
' ' +2.3B: ' 23R<4 '8 E0 R.B+B2
3' 8" , -@ - J* ' QR*+*3B:*+:*@ 2/0 ' ' ;
89B +2 89.. 5' IL 3R 89B BR 2.3B . 3R' + ' < B3 2 42
+ ' <=R8 ?92 ?9' 3B 32 42 BR 2.3B . 3R
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3' (' QR*+4*3B:*+ *M *G+&/0 6'
2B ; 2 42 <=R8 ?92' $9' 283 898.2<3 G+2 4&43B2 \+2:*
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/1"(%"/2*'" ,!!/' "+;'8*/' Q!"&,!"-+4*'%O/&"
(*-% 4*!' ' ;'*!/"('O(,!"!"(#'"-/(%O/2"(,!"&"(
#" &" 2*/("'."'O-%(#O/(2"("/.-'*/(("+"/%$O-'2"'"
4"!" 'O-(*/(#" '"%'"+"/%"+;&O;'"&" 4O'%O2"(%"2"
9' 9' ' */((-(/(
' ? ' $ ' % ' %8+*&*7-,!"+"/%
-1"+;'8*/" "(% 2" ,!-' ("##."&*44" #O/(1"(4"2"
&O +6"' &" $"'%-&-(" %-+-%" "(%"/(-/("+"/%"(
"(+##"2-/*/(%#O%&-2'%-(%"/(%+"/%"/(*/("2#!/"@
;'8*" "(% #!+-&"'"(%(."'%O&'"/ O!' H#, !% #" (*
##."&*44"+"/%(#O/(&" 2*+4&"%"+"/%%*!%"'"/O%'"#
#O/(!/'#O%O!&%(#!-(' O/ "%"+"/%"/(#O/(1"+;'8*
("-/' #" &O 4"'-*#" "% #" &!(O/2" #" 4O'%"&"+"+"/%
1"(4#2" 6! +O-'"/% #!4&O2"/%O ' "/("+;&O;&"(
#"%'*-%"(*/%"(#O/(&O /*%'" /O%!'" #"+;'8*/-
-&&"+"/%"/(' "%-/ 4' 'O+"!'O-%"' ("4O'O%-*/#"
#"(%-/"+"/%"/' &" &*/7 #" %"+4(*!' &O/O%!'" #" &"!'
*!4&O2"/%"' #" &"!' (O-/% 2-7"+"/%(. &"(4&!("@
&O/O%!'" #"(4"2" +O%*!'#"(*-%"&#&"(%"/2"("(O2'O#
"(% 2" ,!-' #!(*/' #O/(2" *!' 2"(*/%"(4"2"("
#" 4*!' 2" ,!-' +"'O-'"/%' #" 1"(4"2"' *!' 2"&O
Y"%O!'"/(' ' !'("9-'"'("/(%'"&&"
2" ,!-'"/2"'"/7"/#'"'"(("+;&O;&"(' '' /#"
&" 2*-%" #" -/(%-/2%' "%O-/("!& ,!O/#"(%"&2-'&O/
&"(2*//"(O+"(' ,!-' "(%"/%"/#!"' -/"'$O-%"+"/%
4"'$"2%!&%" "/(%"/2" 2" 2*/2"4%2*/'"/#!"!-/$O-%
4*!'"-/(%O/2"' 1-/2*-/(-(%"/2" #" 2"-/(%-/2%' ."'("
#" ("(4"2"(%*!%"("(#O!%'"($O2!&%"("(.*-(-/"(
2"%%" $O2!&%" '"(%"'O-%(O/("/%"/#'" #!!/"
$*/(2-"/2"' ' +' "(% $O2!&%"("(
? '> 1 4 ' "%&" &O%-6 2*!'(
% ? DO/@;'-@*@&O@(%1E' (' '
"'+" #" 26-'!'7-" 2 ("+;'8*%*(%Y 1"+;'8*/-"
4'" &"("(#!' $*'"%!(' 4*!' -(!' $O2-&" -"
&*'(,!"!26"+"/% "% *!%%"+"/%"(-"(#'*-%"(-&K
%"+;'8*/" +O'-/"' #O/(2" ,!"/'"(%"!% 4O(-&%-"
-.%"/%- ("(&"(' ' %O' #!' (-'O/2"("+"%"/%
+;'8*/"+"' "(% &O ;*/%"(#"&&"+"/%&O+&-"/
;' "%%" 2*-%!'" ' 1 "(% *!' 4*!'%O/% $O2-&"
$*'+"(&O(%!'"-/'" ' 4!-(O-/(-&+-"/'
' '"+;'8*/' "%!-(#"(&"(*/' 4&!(.'O-%
4*!' &O 2*/(%-%!%-*/ #"("(4"2"(*/(%O/%"(*/(
#"%'O/(+-(("#"4'*&-$!%#!/"(4"2"%"'+-/"&@
;*'/" #" &O (O-(*/ 4O'%-2!&-"'" #"(
'*!7"' ' ' "O!:"/ 7'O/#" 2*+4O7/-"
&O 26O-/" ,!!-& $O!% %'O-%"' #O/(&O
' ' + O- * $ ' +* $ ' 2"&O
+*'%"/ 2" *!' #" &O /O-((O/2" "% #!"&"/%%*!%
"(%O&' 2" 2"&!- #" &O $O-4&"(("' "% &O 4"-/"(
;!-(%" 2" ,!-' $O-%&" +O4"!' *!'%*!%"("/*!7"&&"
&" 2"&!- "% 2" +*%-$ #"(4&O2"' 2"%"'+-/"
1!/-,!"' 4O' &!- $*'+O%-*/ #!!/ 4&O/ #"
(O/% +O-(-& /!"(% "/2*'" ,!!!/' &O/#"4!%O%-*/
#!!/"4"'.*-& 2"&!- #"(4&O/%"(' /*(2*+ 4'"/ #
"/4O'&O/% #" 4&O/%"(-&/"(%"("(%*!%"(&O/-4"
"+;'8*/' " *!' /" ,!"4"!(O/%"'-/' 2" ,!-' &" 2"
("(4"2"(*!/"'O(*!'#!-' ' 1"(%!/"(4"'/*!'%/%
;!%(#"&O(%*!%"(&O(4"2"("% 2*/.-"/%#" (*/"/
#!"/7"/#'"'*!' 2" 2*!'(#" &O *-%" #!/#!"/%"
!' &O /!'-%!'"' #-(4'*4*'%-*/"%!/"(*'%"#
*-+4"' #O/(&O ;!/#"(%#!"/%"(#-$$-2!&%"(' "%
!' 26O2!/"' ! !-4'O'!/"' "/ .!"' #" 2/("'."'
" "(4"2"' ' ' &" #"."&*44"+"/% #" &O 2*%-!'
"/%"'+-/O%-*/ #" (O 4'*4'" "(4"2" "% ' !/ 2*/&" #"(
#" (" /*!''-' #" ("(("/%-+"/%(#"2*!'O7" &" 2*!K
!%+O%-,!"' (" 4'*4*(" 1"(4'-% 4O'$*-(2*+
-&'"&&"' ' ' $O!% +*!.*-' &" 2*'4(' 2"
$O'+"+"/%"/' 26*-(-(("/%"/%"' %*!%&" $"'
!+O/-%"' "%"/2*!'O7"+"/%"#"(2*!(O/7"/#'"(
#!/"O$$"2%-*/' ,!-' (" .*-% O-/(-' &" (*'%
#" 4'*4O7O%-*/ #"("(4"2"(' O!:2*/%'O-'"(

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'8 $ '&O%' '#" '#" '6*'('
"% $O-'" (O-&&-"' (10.0/2"'
H#H& 88 %# DM@+-@/O/@%-@((-@+1E' 5' '$2@
#+-/"/%' Q!O&-$-20%-*/' #*//H" O!:' 20'#-/O!:' "% O!'
7'O/# +O&%'" #" ?O&%'" &%"(("$"+-/"/%-((-+"
'# $ ' O%' , '(!4"'&O%-$'#"' S
' +-/"/%' " &-%'" O440'%-"/%' O!:' 20'#-/O!:'
#"4!-(' 1O/' %"(*
? D#@+-'E' ' ' 6"<&"('O;"('7*!."+"!"
#1!/" /'*.-/2" */' #1!/" %'-;!' 2*/(-##'O;&"' ' -%'"
,!" 4*'%"/%&"('4'-/2"(#"(2"/#O/%(#" ?O6*+"%40"
&"($"++"(
'# $ ' 'O;"' '2*++O/#O/%' " %-%'" ("
%'*!.2 #O/(&"(.-"!:%":%"((*!(&"('/*+(' %
' D.*8' @
' D#@+-' +-@<1E' ' ' #1#+"%%'"'
' d O/2# 6*'(' O 260&"!" "+-(" 40" &" (*&"-&'
' d ?-("/'2-'2!&O%-*/' "(O2%-*/(#+-("(40" !/"
2*+407/-" #" 26"+-/' #"$"' ' Bi '*#!-%' ":4'-+#'
"(2-"!:' .O&O;&"+"/% #+-(
' D#@+-@((@'E' (' ' NN F 7"/% 260'7#
#1!/" +-((-*/' ("2'#%"' ' U "&&-((*/J "/260/%O%"/"K
+"/% (*/' "(4-*/' ,!1-& "/' $-%(*/' #+-((O-'"5 -& "!%
40" # !/'2*++"'2" 9*!'/O&-"' #" &"%%'"(O."2 ?-&"
#" 2!##'8' " 9 ' '&* ' %' --'4' $$'
#O/(4** ' "(#+-((O-'"(#"((#/O%"!'(U#"
#/"(J (" 2*/%"/%O-"/% #" #-'" O!:' 4&!(O22'##-%"(
#!' 4"!4&" 'S!(,!"(# ,!O/# O%%'/#'"<@.*!(,!" &"(
!%'-26-"/(' 9 '&*!%('S ' E' "(#+-((O-'"('
":2-%"/% &O 20/O-&&" # 1044&O!#-'' 9 ' = , '
' * ' 5 '2*/O-(&"(#26"(#+-((O-'"(Q!-' ("K
+"/T (*!'#"+"/% 2"(' 2&O+"!'(+"/(*/7#"(' !'9"
' 2 *+, ' / ' Y' !' ("-/' #" .*%"' 2*!" *-&
91O-' #"(#+-((O-'"' ' - : ' ' ' , * '/-'
M' ' ' "'+" #168#'O!&-,!"' O/O&' %1 8O!' ,!-' ("%
.-#"' !/' ;O((-/' !/' &O2' 1#+-((O-'" #!' &O2
!2-/' D ' OOO ' M' ' /1 E' NN "'+" #1O@
/O%*+-"' */#!-%' 20/O& ,!-' #.O2!" !/" 6!+"!"
,!"&2*/,!"' /' #-% 4&!%#%#+*/2%*-'"'NN +-((O-'"(
#" O/%*'-/-' &"(4"%-%"(;'O/26"(."-/"!("(,!-'
40((O/% # %'O."'(&"(*(#!' 2'#/"' #%O;&-(("/% !/"
2*++!/-2O%-*/' "/%"' &"(."-/"("(-/%#'-"!"("% &"(
."-/"(":%#'-"!'"(#" &O #%%"' NNB'& 6' '*!2 #+-(K
(O-'"' ;*!2 ,!" &"(S!-$(260'7"O-"/% #"(+O&##-2@
%-*/(#!' 4"!4&" "% ,!1-&(260((O-"/% #O/(&"(##("%
4*!" ##%*!'/'"#1"!:' &" +O& ,!-' '#(!&O-% #" &"!'(
$$"/("(' % O'/' 4'"/#'O #" 1O(("+;&#" #"("/@
SO/%(#1&('O#& #"!:' 9"!/"(' '4!-(O'*/' 9"%@
%"'O &" (*'% (!'&"(#"!:' ;*!2(' !/' (*'% 4*!' 1 %"'@
/"T "% !/' (*'% 4*!"&" ;*!2 ,!-#*-% #%"' O<O<"&@
&" ;*!2 (!"&",!"&"(*'% ("'O #26!' 4*!4#%"' OK
<O<"&' ("'O 4'#("/%# .-.O/% #".O/% %"+" &4*!"
$O-'" 4'*4-%-O%-*/' 40" &!-' "% */' 1"/."'O O!' ##("%
4*!" ##%'" O<O<"&' ' 1 ' = / ' : .-'M "% (!-.' &(
/% 4!-/' 26".O& &"(#+-((O-'" &" 4"/#O/% #!' ;!2 #+-(K
(O-'" #"(S!-$(' ' ' ' ' B' ' -7'
"'(*//"# ,!-' */ -+4!%" %*/(&"(%*"%(' * '("%
"<,!" 9" ."!:' $O-'" #" ?+" #1 '7"/%*/ "% ;*!2
#+-((O-'" #" 1O/2-"//" &*-' U&O 260'7" #" %*/(&"(
$O-&(' '"4'**6#(O!'#!" #1 '&#O/(J' ! ' $'
" 260/2"&-"' $!%&O .2%-+" #!' #!" #" *O-&&"("%
&" ;*!2 #+-((O-'" , -' ":4-O &"(4#26#(#" (*!'
O+-' ' B ' A
'# $ ' O%' ' O!' ("/(#1O7"/%'
' O!' ("/(#" 20/O&' #"' '(14-/' #"
' &O-((" O&&"' #+"%%"' D.*8' 2"+%E
%' ? ' D#@+-@((-$'(-@.1E' 6' "'+" #"
468(-,!"' Q!-O &O $O2!&#" #1#+"%%"' #" &O 260&"!"
!'#" &O&!+-#'" #O/(%!'&"(("/(' *!.*-" #+-((-$
'# $ ' *8'# '5 4'*."/, '
' D#@+&@(&*/5 "/' ."'(' #" ,!O%"' (8&@
&O;"(E' ('$' ' 2%-*/' #1#+"%%"' #" &O/2"" O!' #"K
6*'(' 1#+-((-*/' #"(2*'4!(2!&"(*#"O/%('NN 8(%##+"
#O/(&",!"& */' (!44*("(,!"&"(*&"-&O/2" #"(
4!(2!&"(&!+-/"!:' 40" *44*(-%-*/' O!' (8(%#+" #"
'/#!&O%-* ',!-O%%'-;!" &O&!+-#'" O #"(*/#"(#O/(
!/' +-&-"!' /*++## #%6"' NN ' "'+" #" 468(-*&*7-"
2%-*/' 40" &O,!"&&" !/"26*("(" %%4*!((#"O!' #"6*'(
+-((-*/' #" 1!'-/"' O/(&"(4&O/%"(,!-' 4*%%" #%
(!" !/' 4-"#' &"($&"!'(' +-&"("% (!" !/' O!%"
&"($&"!'($"+"&&"(' %"&&"(,!" &" 260/8"'' &O
4&O/%" +-&" 4#'-% O.O/% 4&O/%" &" +"&&"' "% &O
+*'% #" 2"&&"@& ' (!-% 4"(,!" -++##-O%" +"/% 1#@
+-((-*/' #"(4*!((-#"'" #$2*/#O/%('
" ' LPV,/ %' ./-4 YMA' /*%"' #O/(
' ' "'+" #"+##"2-/"' +-((-*/((0/7!-/"(
OO-7/#"(&*2O&"(*!'7#/#"O&"(' NN Bi 2%-*/' #" &-."'
O &O 2-'2!&O%-*/' +-((-*/' #" 404-"'@+*//O-" +-(K
(-*/' #" $O!((" +*//O-"' 1N "'+" #" ;*!'("(
%-*/' 6#+-((-*/' *4#'O%-*/' #" %"'+" .O&"' #"
-*/' "O2*'" ":-(%O/%" #1!/" +O/-#'" #7O&"' +O-(
&*/%&O2*/(%-%!%-*/' "(4'*;O;&" "% #*/% &"(;O("(
("/%O 4"!' 4'#(2*//!"(' $N ' 2%-*/' #" $O-'" "/K

%"/#'"' +-2(-*/' #" &O.*-:'NN "'+" ## #'*-% 20/*/'
1#+-((-*/' #"(."'!:' &O 4'*/*/2-O%-*/' (*&"//&&"
#"(2"!:
'# $ ' '*."/,' ' "(4O7/' '
-%O&' ' #!' &O%' ' #" , '
(!4-/' #" ' #+"%%"' D.*8'# @
%' # 88,+# D#@+-@((*@1E' (' ' / ,!O%" D O'#"
' #!' &O%' ' (*'%" #" (,!O&"O
?? Q ' DO/@+O@7O@<-@/O@1E' ' 2K
%-*/' #1"++O7O(-/"'
'# $ ' >
#%%O-O8 H#' ' DO/@+O@7O@<-@/#' /#"E 40'%'
" G' "(+O'260/#-(" ' "++O7O(-/#"(' NN O"
":%"/(-*/' ' *!%" &O 260&"!" "++O7O(-/#" #O/(&O
+O(("&-,!-#" U,!-' O ##4O((# &" 4*-/% #1#;! -%-*/'
(O/(;*!-&&-'J O ##4-/(%O/%O/#+"/% "+4&*8#" O 4'*@
#!-'" !/' .*&!+" #/*'+" #" .O4"!''
' ' " ' , ' %' 9 4' M
%' ? ? ? ' DO/@+O@7O@<-@/"@+O/E'
(' + ' ' d &O2"+"/% #"(+O'260/#-("(#O/(!/' +O@
7O(-/' 1 "'+" #" 46*%*7'O46-"' ;(*'4%-*/' #"
&O &!+-#'" 40" !/" (!;%O/2" (*!+-(' O 1-/(*&O@
%-*/' "% 2*/("' .#" "/(1-%" #O/(!/' *;(2!'("(4O@
%-*/' ,!-' ("4'!.""' 40" &"(4'*4'-#%#(#"('O8*/(
26-+-,!"(,!"2"%%"(!;(%O/2" O O2,!-("('
'# $ ' >
?? ' DO/@+O@7O@<-@/#E' / ' ' ?"%@
%'" "/' +O7O(-/' ++O7O(-/" #"(+O'260/#-("('
' 1"++O7O(-/"' . ' -" +-("/' +O7O(-/'
"(+O'260/#-("(/" 4"!'." (1"++O7O(-/"'
' "'+" #" 46*%*7'O46-"' O &!+-#'" 1"++O@
7O(-/"' "&&" (1O22!+!&" #O/(!/' !/' !"(;(%O/2" O
(*!+-(" O 1-/(*&O%-*/' 4!-(' ,!"2"%%"' O 2O/2K
%-*/(/.)"' '4*'%" O!' 2O!(" ,!" &O 2*!2" #" (("
'# $ ' > ' "%
?? ' DO/@+#7'-' 7'-"E' " ' "
/' "/$O/%" "++O-7'-'
?? ' DO/@+#7'-'E' $N d 3' ' /#"'+O@
7'" ' F 9' ' "."/-" +O-7'"' N Bd 1"++O-7'-"'
' "."/-" +O-7'"' ?*-9? !:' -"!'+!"/"7O'#"'
"%#1#%" O(("<;O#-/' *!" +1O&&"" "++O-7'-"O "2 /
%"&2607-/' ' ' !" ' '
' ?' !'+*% % ' 1":"+4&" # - ?*&-#"
"(%2-%#5 +O-(O+O-7'-" "(% !/" 2*'"2%-*4 #"(##-@
%-*/(4*(%##'-"!"(5"++O-7'-"(%&O .'O&"&",*/
' ' ? ' ?? ' ? ' "(/("/" @
%'" #" #" ."/-" +O-7'"' 2"(%'-*-(+*%((*/%%*!#1*-(
(8/*/8+"(' "% "/$O/%% +O-7'-%*!' "++O&@
7'-%5 -& /18 O 40 '#" !/O/2" "/(-;&" "/%"' 2"(":K
4"((-*/(' "!&"+"/%' O!9*!'#16!-' "++O-7'-" "(%
+*-/((-#+ ,!" &"(O!%*"' '
' ' :9-!'(' #-(%O-' ;O2;&"%" ' ,!"(4"&%U,!"
(-7/-$-"J ,!"%!'"((-#"(60-%"< "(-"++"7'-<3<
4' ' ' :-/!' (&#*!%"U2'O-/%J #!'2*'("/+O-@
7'N' !"'O' ' M%
' ?' /%'"%
\' ?? ? ' DO/@+#7--@("@+O/E' '
1O"%-*/' #1"++O-7'-'
1@ ' 29 B' ' ++O-7'-((#+"/%' " ' !
'# $ ' >
?? $-' ' DO/@+O@ &*@%#'%"' ' &&+*!-
#"(' "% /*/' O/@+O@8*@%#' %#"E' " ' "C ' /8"@
&*44# #1%%/ +O-&&*%' /$O/%' "+2/O-&&*%%#' /' O-+"'O-%
+-"!:' +*!'-" O."2 S#(!(@ ;'-(% #O/(&"(#*!&"!'(
,!" #"(."-"O."2&!-' "++O-&&*%%## #O/(&M ;"2"O!'
' %' ;.---'4' A' ' -7' "%%" ##-%@ U&O -;"'%#J
Q!-' &O-((" "/' #" .-"!:' &O 7"(" +*/#" "++O-&K
&*%%#" # ' = 1 ' NN "'+" #"/%*+*&*7-"'
8+46"("++O &*%%#"(' 2"&&"(#*/% 1"/."&*44"
&O-((" .*-" &"(#-."'("(40"% (#" 1-/("2%" 40"$O-%'
/' (O-%O(("<,!" &O 26'8(O-#"/1O /-;'O("-9O+;"('
,!1"&&"(% !/' 404-&&*/' (-;-"/' "++O-&&*%%## ,!1-& /"
4"/%$O-'" O!2!/' !(O7" #" ("(+";'"('
$ 'C1 / GY
%' ?? O ? ' DO/@+O@&&*@%"@+O/' '
+*!-&&#" ' "% /*/' O/@+O@8*@%"@+O/E' ' 2%-*/'
#1"++O-&&*%%'" 1"++O-&&*%%#"+"$-% #"("/$O/%(
' ' S 6' ' "(&-O-(*/(' "% "++O-&&*%%#"+"/%(
" ' "/$O/%(' / ' MY
' ?'>
?? ' DO/@+O@&&*@%#' ' +*!-&&#"(' "%
/*/' O/@+O@8*@%"E' !'G%N F ?"%%"'"/' +O-&&*%' "/@
."&*44"' #" &O/7"(' ++O-&&*%%"' !/' "/$O/%' NN O"
":%"/(-*/' &&" 4'-% 4O' 40" $"-/#" #1#%%' ;*-@
%"!("(5 "&&" "++O-&&*%%O (*/4-#"'#+-4"(*/-@"
' &" 7'*(("' "::2"(-"!'"(O."2 &"(."'-"("(O/%-4-."'-
' 4' A ' #O/(4*!' ' NN -7' ' /."&*44""
,!"&,!!/'#"%*!%(40"(' "/' #"(*/"(#"(("(
.&*/%#(S" 2*+4*/#/%"(#-/(' +O-/%"/O/%' 4O!'40!'
#*!'O#"(*-/"+"/%#" &"(+-/&&/"<+O-&&*%%#"(
' - ' ' ' j' ' N ! 1"++O-&&*%%#"' ' /'
' 1"/8"&*44"' ' *(+OH(%'O%(*/% ;-"/'2*/!"!
&" +8(%#"' U&" '"(4'2% ,!1-/(4-'O%-*/' -%J5 &"!'(

'*;"('*!7"('&"!'('6"'+&/"(#*/% -&(1"++O-&&*%%@
%"/% "/' 260%($*!'"#(' O ' 4' A
##-%' O6!"
' ?' 1 2O##+-"#2'-%"++O-&&*%%"' O."2#"!:'
'"% ##+O-%&*%%"' O."2 !/' ("! 5"1"(%!/"'O/*+O&-"
O $O-'" #-(4O'O%"'
' ' :/1(' ' &" 4'"(-(+"U 1"/$O/%J%"'%%*%
"++O-&&*%&"%%< , ' ' ' Y/ UN:.!' (' O +*/ 4*@
.*-' ' &-' O-#"'O8' % 1O/$O/%"/+O-&&*%"'O8' "%"(
(1"/' $"'O8' +*/' #".*-' "&*/' &O &*8' +*/' 4*.*-'
= ' ' ' ' #' ' ' 4 'NN:.-!'(' "% ;O4%-<"'&"
/*!'-'&" $*%-$-"' 1"++O-&&*%%#"' ' ' J;a
' ? / ' "% +O%C*%5 ;*!'7!-7/'
' '4'*."/2'
' /' "+O',!"'O ,!!/" #"($*'+"("(#!
;*!'7!-7/*/' "(%("+;&O;&"' 2"&&"" #" O*!& #" O+@
;'O-' ,!-(144*(" ' O!' &-"!'#"
$' ?? ' DO/@+O@&O@#-'E'N d]' ' "/#"'"
+O&O#"' N d]' ' "."/-" +O&O#"'
' ' :/!(' - "/$O/,*/"% ,!" O.-# *!% "/@
7"/#'# #" &O $"+" '-"'"++O@#-% "%$!' #" ("(4"@
'"<' < '4' ' -"' "++O@#-% "%$!' #" ("(4"@
'"<' < '4' ' -"' "++O&#-% "%$!' #" ("(4"@
(1"/4"(O/%-' /' 4*-' #" %"/("/+O&O#-' = '
NN :.-!'(' 1"+;'O7" #!' /*8"" "++O&O@
#-((O/% "%6*++"(" "%;"(% (18 '"%'O-O/("#"(*!(
' ' M)M
'# $ ' /'G' "%%X*&*#"54'*."/,'
\' ?? ' DO/@+O/@261E' ' $' "'+" #" ;&O@
(*/' '-O/7&" 48'O+-#O& ,!-' 1O.O/2" #1!/' #" 6"'#(
#" 1#2!' ."'(&" #-&-"!' #" &O (!'$O2"
'# $%' > ' ' * '
%? ' f ' DO/@+O/@26#'26#"E' "
' !' O'/-' #1!/' +O/26"' /" 2*7/#" (*&-#"+"/%
"++O/26#"'NN d /' %"'+" (#" ;&O(*/' (" #-%#"(
;O26"('$O!:' "%2' ,!-' */% !/' +O/26" #1!/' O+O-&
#-$$"'/%'N &(" #-%O!((-#"(40"%-%-*/(#" 1 2!'*'
&"(4- 2"(1"/2&O."/% !/" #O/(1O!%'"' "/'$*'+"#"
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@ - ' ./' ' ' "'+" #" 4"-/%!'"' ?"+;'"
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?? ? ' DO/@+O/@26"@+O/E' '
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-& O.O-% "++O/26# (O 2*7/#"' - 1 ' :!'
M' ' -7' % 4*4!&O-'"+"/%' /%O+"' O$$O-'"
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' ' -"(%$*'+/%' +!$" %%-/%" 2
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04'"(' ,!-&' "!%' #-#' 4-&&#' 40" /%-*26!(' 4-460/"
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*#' +!'+!'" 0;"-&&"'- '&1, '-' M' NN I *+K
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$' ## - 0 - #'DO/@#-@70@91E' I' ' 8 *68+"#1"/@
#-7!"+"/%
%' & ? -$ 'DO/@#-@76"@+0/E5' ' ' 2%-*/'
#" 2*/%"/-"&"(' "0!:'0!' +!8"/'#"#-7!"('NN '0.0!:'
$0-&('4*!" "/#-7!"'NN '*-% 022*'#;' $%!/' 40'%-"!&-"'
#102,!;'-"&"(' 40'%-"(' #" %"''0-/' ,!!-&' 4*!'0' (*!(@
;'0-'" 0!:' "0*:' 0!' +*8"/'#" #-7!"(
?'>
$' 'DO/@#-@76;E' . ' ' */%"/-"#"("O!:'
' 10-#" #!/" #-7!"
' $ ' / ' ' "%' ,
& /$-' # 'DO/@#-@+0/@26;'26;"E' "
" ' "(' 408(0/(' "/#-+0!26;(
#H6>> H7 &#/' DO/@#-@+0/@26;E' . ' ' "%%'" $%
,!"&,!!/' &"(' 60;-%(' #!' #-+0/26"' /#-+0/26"'
#"("/$0/%(>DN 1"/#-+0/26"'' / ' ?"%%" "(' 60K
;-%(' #!' #-+0/26"' "(' 4&!(' ;"0!:' 60;-%(
' 'O I'(' %&' $-%' +"%%"'&"(' +0/26"' '*!7"('
0!:' ,!0%'"' ;0+;'-"'(' "% 0#-+0/;"'&"(' ,!0%"'
2!'"<' "6' "' -* ' / '
' $ ' > ' ' *
'DO/@#-@.1E' (' ' $% 26-2*'$%"' #"(' 9O'#-/('
@' 'O I'(' #<"-&&"' 6;/''*26"' ;!7&2/ ' 2-@
26*';"'"/#-."' "% ("+;&0;&"(' ' ./%' ' O'
2-26*;" *!' "/#-." "% "(4"2" #" &0-2%!"'*@
' BYB5' BM) ' @
'# $ ' '*."/,'"(407/'"%-%0&' / '#!'
&0%-/'-%-%8;!(' "/'7'"2' f.%!M*.' 40" 1-/%"'+;#-0-'"
#!!/'0#9"2%-$'$&"%-$ 41
%' ? ' 'DO/@#-@.&@<-*@/"@+0/E
(' ' "'+"#10'%'+-&-%0-'"' *'+0%-*/'#1!/"'#-.-(-*/'
40" &0'!;!/-*/26"' "#"#!:' -%*!(
' $ ' / ' ' "% /
$' " N ?' DO/@#-@<"@&;E' . ' -%' #'-/"' '!'0&'
0-'"#"(' #-<"0!:
' ' O I' 0' 4'$%(' ,!"&"(' #-%(' 0;&0-(' U' ;-;('
2 /4;(S (*/%' &-"< ' "% "/#-<" "<' , '
%' '4' MAA
'# $ ' / ' '"%' 7 ,
%' 'DO/@#*@;'0/@261E' 6' "'+"
#"'<**&*7-"'Q!-'O' &"(';'0/26-"(' 4&02;"(%' 1-/%;'-"!'
' ?' .**.'"/'#"#0/(' "%'1 *
$ 'DO/@#*@[O'@#1E' (' +' "'-/" #10@
/0%*+-"' ?"+;'0/" ,!-'%04-(("' &"('20.-%;(' -/%"'/"('
#!'2% !'
' ?'F . "."/'#"#0/(' "%:04*&0' "+!'
%' 'DO/@#*@[O'@#-@$E' ' ' "'+"
#" +;#"2-/"' /$-0+0%-*/'#" "/#*20'#"
' 'DO/@#*@[O'@41E' (' ' "'+ ' #"
;*%0/-,!"' ?"+;'0/" +,' ". ['&O'20.-%;'-/%;'&"!'"
#!4;'-20'4" -&' /#*20'4"(' 7"/'"'#" &-26"/' (' %84"
#" &O' $0+-&&" #"(' "/#*20'4;"(
%' ?' . *.'"/'#"#0/(' "%:04/*3'$'!-%
=#%6,70?.#' # ' DO/@#*@20'@4;' 4'"E' *#N

"'+"' #"' ;*%0/-,!"' Q!-' '"(("+;&"' -% !/' "/#*@
20'4"'NN#' ' " ' "("/#*20'4#"(' $0+-&&"' #"' %@
%' $- 'DO/@#*@(@$O@&1E' *#9' "'+"@#"'
<**&*7-"' Q!-' /10'4*-/%'#"' %M%"' O440'"/%"' O!'#"6*'(
'$- ?'1 . *.' "/'#"#0/(' "%' %M%"
$' 'DO/@#*@[*@'-@*/E'(' + ' "'+"'
#10/0%*+-"' "!-&&"%'-/%"'/"'#!' 26*'-*/
'# $ ' .-*.' "/'#"#0/(' "%'*
%' = 'DO/=&*@['#@+1E' 1' ' "'+"' #"'
;*%0/-,!"' "&&!&"' ,!-' #0/(' &"(' 0&7!"(' $-&0+"/h'
%"!("(' 2*/%-"/%'&0'+0%-6'"'2*&*'0/%"' #"'260,!"' ("7K
+"/%
'$- ?'1 .B*.' "/'#"#0/(' "%' 2*!&"/'
\' 'DO/@#*[@%'-@/0@CE' K' Q!-
4"!%'B%'"' "/#*2%'-/M
' 'O I'(' /#*2%'-/0;&"' C 9 ' g
' ?' >
' f ' DO/@#*[@%'-@/#' /#"E' 4*'%'
" ' Q!-'0' '"2!' #"' 1-/(%'!2&-*/' #"(' -/(%'!2%-*/(
' ? 'DO/@#*[@%'-@/"@+0/E'
2%-*/' #1"/#*2%'-/"'5' "#(! O%' #"' 2"%%"' O2%-*/
' 'O I'(' /#*2%'-/"+"/%' 9
'# $ ' > '4'*."/3'
20%O&'
'DO/@#*[@%'-@/#E' W' ' LL6 %+"'
',!"&,!!!/!/"#*2%'-/"'1"(%@ @#-'"' !/"'2'*80/2"'
&-/"'*4-/-*/'%*!%"' $O-%"' ?O-(' %*!9*!'(' 2'-%-,!"' "/'
."'(' 4-"!:' "%' $'*-#(' O/(' #0-7/"' ("!&"+"/%' "/@
#*"%'-/"'&"(''*-(-' ' 'NN 0' ":%"/(-*/'
-'*/-,!"+"/%'"%' "/'+0!.0-("' 40'%' */"'"#"' 1-/@
(%'02%-*/' -' .*!(' "/#*2%'-/"-'< !/' "/'$O/%' #0/(' 2#%%"
T(2-"/2"' U&0'7#*+#%'-"J' ,!-#*/"' 4"/'$'#1-##"(
'H '"#/%"' '!'%' ' d */"' ',!"&,!!!/'
2"'%0-/"(' -/(%'!2%-*/(' 4*!' ,!!-&' $0(("'*!' #-("' !/"'
26*("' 2*+0' */' &"' ##(-"' "%%"' O&0.-%' /"' +"'
#-%' 4*-/%' ,!"'.*!("!((-"< #%#' +%#' .*!(&10.-"<6-"/'
"/#*2%'-/#"' (.'YRB
' O ' O+"' !-;*'2'$!'+*!&%' #"' $'0/26"'
'-/"' U'-7-/"9' "< &!-' (10(-(%' ;"&"+"/%' 1"/#*2@
%'-/"' ' ' %& * ' . ' MBA' -' '"-(' S*(04;0%6'
0((-(%' 40'"%!%"' (0'%"'"'"9!7"(' O(' 2-%"<' "'2!+0/#0#'
,!"' &"O&'9!(%-("%'/-(("/%'%#4*.'"' O&'-26"' ,!"'
-&'"/#*2%'-/0(("/%'&0'7"/%'#"' &0' &"-' /*(%'"' "-7/!'
,!"' -&' /"' 4"260(("/%'< '4' Y ' "&!8' '2!8'%!'
40'*&"(' 4*'&!-'"/#*2%'-/"-'' ' 'MRB' NN:+I'(' -'
&"'2*/("-&&"' "%' "/#*2%'-/"' *++"/%' -&'&"(' #*-%'4'*K
2!'"' ' < ' -!(((' NN:.I'(' S"#-(' "%' 2*/("-&&"'
,!"' &0' ;*//"' .-&&"' #"' O/#' /.*-"' 40"' #"(' &"'
2*+%"' (07"(' ;*++"(' ;-"*'0.-("("%'"/#*2%'-/#("#"'
40'&"' ' ' MY' %' "/#*2%'-/*-%' &0' #!@
26"(("' ,!-$!%' +*!&%' (07"' %*!('&"('9*!'(' &09"!/"'
&&"' #" O.-"'"' -/' ' ' B NN:.-I'(' ' &"'
K '%'#(' ;-"/'"/#*"%'-/"' U-/(%'!-'"J' 40' '-(% %"@
&"(' '2 '-'%
'# $ ' > ' '#*2%'-/"54'*."/3'
-%O&' *
V@ 'DO/@#*@[%'-@/"!'E' ' ' #*@
&*7 '/"' "&!-' ,!-' "/#*2%'-/"
'# $ ' >
? 'DO/@#*@##'@+19' ' ' "'+"' #"
;*%0/-,!"' *!26"' !%'-2!&0-'"' (-%!#"' "/%'"' &"'&-;"'
"%' &"' (8(%#+"' &-7/"!:
'# $ ' '#98 9' "/'#"#0/(' "%' -440' #"'+"
'DO/@#*@#@(%#@<-"E' ' ' "'+"
#-#02%-,!"' O' ("/(-;---%#'-/%"'/"
'# $ ' '#98 9' "/'#"#0/(' "%' O&* /!='("/(0K
%-*/
%' 'DO/@#*@9#@/1&' 6' NN I' "'+"' #"' ;*K
%0/-,!"' Q!-' (1022'*&%' #"' #"#0/("/' #"6*'(' #7#@
%0!:' "/#*7#/"(' NN%1' "'+"' #"' 7#*&*7-"' *26"(
"/#*7#/"('2*!26"("/'2*/%02%' O."2&"/*80!2"/%'O&
#"' &0'%"'"' ,!!"&-"(' "%'*&*44"/%' "%' $*'+#"(' #"' %*'K
'0-/('2'-(%OS&-/(' "%'#"' (";-(%(
' ?'I . *.' "/'#"#0/(' "%' 2.*%' "/7"/#'#
\' 'DO/@#*@9"@/#@<19' ' ' "'+"' #"
'468(-*&*7-"' O-((0/2"' #"' 2"&&!&"(' #0/(' 1-/%#'-"!"
#10!%'"('2"&&!&"(
@' ?' >
%' 'DO/@#*@7*@/1&' I'+' "'+"' #"' ;*K
%0/-,!"' !"' (4*'-%#'"' #"('+*!(("(' #4*,!"' #"' &0'
$&*'0&(*/
'# $ 'I . *.' "/'#"#0/(' "%' 8*.*' ,!-' "/@
7"/#'"
@' 4 ' 'DO/@#*@&*@'-'-"E' 40'%'' #1"/@
#*&*'-' e' */' '"(("/%' !/"' #*!&"!' *("' 4&!(
+* "+"/%' &"!(' +"+;'"("'/#*&*'-(' ' K' " '
'4
' 'DO/@#*@&*@'-'E' .' O' "/#'"' #*!K
&*!'"!:' "/#('+*/' ;'O(5' 20"'!/'&*/7' .*807"' f/@
#*&*'-%'%"O'4-"#('4*!#'"!:' # ' 3 4 ' 1"/@
#*&*'-'/' ' " ."/-"#*!&*!'"!: */' ;'O('1"/@
#*-*'-((O-%

' : .-d'(*/%&O' ."!"' "(%' #-+-/!-"' "%
'*"-&' "/#*!&*!'-' *' /" ' BBA
'# $ ' /' %' "%' , , '7 /"8'
% ? 'DO/@#H&*@'-@("@+0/E'
*&*7-(+"' 2%-*/' #1"/#*&*'-' ' %O%' #1!/"' 40'%-"
,!-"(%'#".'/!"' #*!&*!'"!("
' ?' > '4'*.'
$? 'DO/@#*@&-/@$E'P' ' "'+"' #10K
/O%*+-"' -,!-#"' 2&O-"' "%' O&;!+-/"!:' ,!-' '"+4&-%
":O(%"+"/%'&"' &O;8'-/%6"' #"' *'"-&&"' -/%"'/"
'# $ '11 . *.' "/'#"#0/(' "%' 4 "
$-' $-' DO/@#*@+O@9#' 9#"E' 4*'%
" 'Q!-'O' 4'*!.' '!/'#"++07"' /'+!'"/#*+@
+07 '40' &0'7"& "
%' ? ? 'DO/@#*@+O@9"@+0/5
2%-*/' #1"/#*++07"'5' (!%O%' #"' "%%"' O2%-*/
' 'O I'B' /#*++07"+"/%' 9
' ?' >
$' H ' DO/@#*@+O@9 ' "' '4'"/#' !/' P'
#".0/%0"%*'%"/#*++07"0/%'"/#*++07"*/(EP' '
O!("'#!' #*++07"' O'7' &"'O'"/#*++07 '&"('.-@
7/"(' "20/*/'0"/#*++07 '"'%' #-$& "' //"(1 ."
4*-/%' 2"%%"-+4*'%0/%"' $*/2%-*/' (0/("/#*++07"'
(0'$*'%!/"' - O' f(' I' , ' NN 1"/#*++O@
7"'' ' f%'"' "/#*++07 ' "(&-.'"(' *!;&-(
#0/(' !/' 7'"-"'(1 %O-"/%"/#*++07 (
' 'O I'(' *7/ "(#*/%' -&('2*!4*-"/%'&"('40K
&&(' "%' "/'4"!#"'%"+4(&"("/#*++07"'"/%'
"' BB'4"!%'40('260/7-"' ' "260'7"0/%'#"' 4*++
,!-' /1"(%' (0' /*!'-%!"' Q!"' "1"(%' "O#*++0-7-"'
' ' ::./%' '0'70-7/ '#"' 7'0/#"(' ;O%O-&&"('
(0/("/#*++07"'(*/' '*80!&*' H(' 9 ' &Y 10@
.0/%' 70'#"' #!' '*8' $1%'$*'%"/#*++07 "' +' +'A'
' :.'"(' "'-2&"(' .*!&0/%0!((-"/#*++07"'!/'4"!'
&1"/!"+-$"-%0'+"' R'.0-(("0!:' 'O #
'# $ ' f/'G'"%' /' %'*!."' #0/('&"'
O I' (- 2&"' C
$- 'DO/@#*@/ @$'-@%1E' ' ' "'+"
#"' + #"'-/"' /$&O+ +O%-*/'#"' ;%' +"+/'O/"' ,!-'%O@
4-(("&"' ;O((-/"%'#!' '"-/
$' ? . *.' "/'#"#0/(' "%' "
$' 'DO/@#*@$*@'1E' ' "'+"' #"' ;*K
%0/-,!"' "-&-2!&"' -/% '-"!'"' #1!/"' 7'0-6"
'# $ '#98 9' "/'#"#0/(' "%'3*4M5' ,!-'4*'%"
$' ? 'DO/@H-*@$'O@7+1E' (' IX' "'+"
#"' ;*%0/-,!"' &*-(*/' "/%'"' 2"&&!&"(' #*/%'&"('0&@
7!"('+O'-/"('("/%$*'+ "(
' ?' . *.' "/'#"#0/(' "%$4#840' 2&*-(*/
%' $% 'DO/@#*@4& @.'-E' I' ' "'+"' #"
;*%0/-,!"' "-&-2!&"' -/% '-"!'"' 1 4-(4"'+"
?1 &.B*. "/'#"#0/(' "%-% "!4-'4& ."'2#%
%' 'DO/@#*@4%-@ 1E' 5' "'+"' #"' ;*%OK
/-,!"' &0/%"' "/#*4%-&' 4&0/%"' #"' 1"+;'8*/'O'
(0'4&!+!&"' "/%-;'"+"/%' '"/$"'+ "' #0/('&0' 20.-%'
2*%8& #*/O-"
' ?1 . *. "/'#"#0/(' "%' 7 9'4&!+"'O-&"
$? ' 'DO/@#*%@+0/' +0/@%1E
6'Q!-' "(%'4'*4"'-"/#*'+-' ' "/"("'O'40('!/"
4"%-%"' O$-O-"' 4 !'+*-' ,!"' &O' 4'-("#"(' "O!:' ,!-'
("/%' -%-@*/' $*'%' "/#*'+O/' "(' "%' ."2' &"(,!"&"#'
/ O/+*-/('-&' $O!%' O;(*&!+"%' (1"+4 6"' #"' #*'@
+-' ' ' ' < '-.' NN -7' /%-!8"!:' &
/*!(' O' O2*/%' "9"' /"' (O-(' 2*+;-"/"(' #16-(%-"(' "/@
#*'+0/%"(
' O I'(' -7/*/(' 40.*%(' #1"/#*'+0/%"'
/O%!'"'/*' $'./' '/
? ' 'DO/@#*'@+"!'' +"$&@<1E'
'"%' ' 1' ?0&$O-%"!' ,!-' "+4&-"' #"(#'*7!"(' ("+@
/-$' ' N d' -7' "&!-' 2"&&"' ,!"' #1*%' ,--"&,!!/'
"1"(%@[@#-'"' "/%'"%-%"/%' #0/("("(4 '0/2"(26-+ '-@
,!"('*!'#0/(' !/"'-/O2%-*/'4' 9!#-2-0;&"'f%' #"'92!"%'
#!!/"' /#*'+"!' NN */'#"' 4"/#0/%' 4&0'
%-*/'%' #0/(' &"(' 4'"+-;"' &!%%"(' #!' 40'%-7-*/#'
"%' #!' 40'%-' +*/%07/O/%' ['2"!-' ,!-2*/['--&O-"/%' &"('
+*8"/('&' 70!:' "%'&"(' .*-"('#"' #*!2"!' NN *4!&O-@
+"/%' /#*'+"!'"' #"' 2*!&"(' "/%' "/%'"!'"#"
!+&*%('' ;*++"' $&/"' %O#'*-%!-0+"!' &"('7"/('#"'
;"&&"('"(4 '0/2"('(0/('"$&%"'NN B!' "&!-' ,!-' "//!-"'
40"'("' 40'*&"' ("*!.'07"(' '0."('O!%"!"('
'*-#(' ; %"!'(' '-(%'4' #-20%"!'(' ' NN I' /'#"'
#10!#-%'-"'(' # '=' '
/*+(' .!&70-"("#"' &0' 2'"(("'-&"
' O I'B' /#*'+"!' #"' 7"/('/*'
1
' ?' >
'& 'DO/@#*'@+-'+-"E' " '#"/@
#*'+-'NN-d' Q!"' &"'(*++-&0'(0-(-'0$*'2"'#"'4-%
2"(;-&"(-/6!+0-/"(' "&"!'4 '""/#*'+-.*/%' 4!-@
("&"(."-/"(' A ' -' %' "'*-&!-@+ +"'
['#"+-"/#*'+-"%'4"(,!"'/!"!%';-"/#"'0'4"-/"' ['
707/"("(.0-((* : ' 'C C>,/
%'.+' 4')' #0/(' NN 1' -7' /'+"'2'*-%

#0/(' &0'40-:' !/'&-*/' "/#*'+-' 9 ' ' '
' ' ?0&6"!' +0&6"!"' [/*!(' (-' /*%'' [+" "/@
#*'-/-" "/26" ."'(&0'%'0/,! &-% -/'$ ' ' '
0/(' !/' "0&+" 4'*$*/# 0'-!(' "/#*'+-' 7/*'0-%
9!(,!0!' /*+'P-!!/' (-$0-;&"' "//+-' & 7-'
"4 2;"!' '"/#*'+-' 40"#" .0-/"(' "(4 '0/2"(#"
2*/."(-*/' ' O9' S$*'D' #!' "*)' O'+-' 2"(
+"!"%'-"'(' #0/(' &"' (0/7' "/#*'+-(' 9 'OY1 9'E
O'2"(#-"!' -+4!-((0*%(' #0/(' &0' %*+'' "/#*'+-('
-/'C " ' ' !' I' #-'0-@9" ,!!!/' (*-" #0/(' &0
;'-(" #"+;O-+ "' /#*'+-' 2*++" %*-' #0/(' -(
40-:' #*' ;*/6"!' ' ' O ' '/
#,/ ' N ' ("#-% 0!((' #"("6*("(' #"(' ("/%-K
+"/%(' #"(' 40((-*/(' % ,!"(*!(' +*/' 0+*!' +0
.O&"!' "/#*'+-"' ' --' A' %(0/(' '"("/@
%-+"/%%' %!' (*!$$'"(' 2"%%%"' *$$"/("' */' 2*!'07"' "(%
+!"%' "%%*' ;'0("/#*'+-' 0 *' 4'&!'Y'
?0' 4'!#"/2"' /1"(%' 40(' %*!%' "2#*'+-"-'
' '+' ' *%'' 4'!#"/2"' "(% "/#*'+-"-'
-' /-/' Q!"&&"' 40(-*/' "/#*'+-"' ("' O&&!+O
#0/('(*/' *"!' "%0."2' ,!"&&" .-*"/2"' -21
' O ' / >,/ %'/ 4' BB'
#0/(' 4* ' % ' ."-&0/%' &0' $*-' #0/('&"' 2*"!'(
"/#*'+-"' & '-.'Y' NN f%' "/#*'+-"' +O/@
,!"'#" .-.0/%' .-70/2"' !"(%!' 6*++"'-"' "/K
#*'+-' !;(%0/%-"' +"/%!2"(!' ,!"' ' NN O-"
1"/#*'+-" $O-' ("+;&"(' #"' #*'+-' */ % 4"!
-/%"&&-7"/%' 4"!!' O2%-$' NN "'+' ."-&&-' #"' +0-/
O.-"' /"/#*'+-' /O.-"' ,!-' O4' (O.*-
' % ' /10' 40(' "/2"' 4"-(0/%' ("/%' 'NNBI' /7*!'#-
S10'S" 4-"#%*!% "/#*'+-' NN 1' #' ' 1"/#*'+-"
/*+' +*/#-"' #!'
8' #-% +!!/' ;*++"' O' +0*7 '*' "/#*'+-' &*'(@
,!!-& **'%%*'4' &*/7%+4(' %' ,!!*/O' #"' &0' 4"-/"' [
&"' ." "-&&"'
[/ ' DO/@#*'@+-'E' P' ' & (" 2*/9!7!!
2*-4+"#"'+-'' NN f O-"' #"'+-"' /#*'+-" !/ "/K
$O/%' '7!('0."2"2"/%8"!:'(*'/+-&&"5 ?O-('2'*8"<@
.*!(' /#*'+-" !/' !O+0/% 9O&*!:%C ' $
& 'A' ' -7' & ("#-% #"'" !%"$*"%'//!8"!:'
#0;*'#'#X' *%%.'07"'*!'#!' ' ' "%' 40"(!-%"' #"
10!%'"!' +-"' "%%"' 4- 2"(%' (-"//!8"!("' ,!!"&&"
"/#*"%' +-+0/ "' /#*'+-'-0-' ,!"&,!!!9*!'(' #"('OK
$O-'"(#"' 2"%%"' 4'*.-/2"(' ' S+2M #" .*("K
+*/(' "/#*'+-"' 10!#-%"!' ' # ' ' 5' 83R+2'
%'4' 70' "% %*!0*!(' /-$*'+-!' /' .O-/' GB+2' \'
/*(8"/(' -&' $O!%' ,!-&' /*!(' "/#*'+-"' ' & ' "' -'
2"!' /#'-"!:' 2*/%"< 2*/%"< "/%"/#"<@.*!($ -'
.,4('!' #*'+"< 40(' +0' (20!' "/#*'+"<@/*!(
6 ' #" ' ' 0&
NN d S"%"'#0/(!/' %0%' +*'0&2*+40' O!(*+"-&#!'
2*'4(' /#*'+-" &0'4'!#"/2"' &0 .7-&0/2"' #"' ,!"&K
,!!/' "(+*%(!(' &"(2*!'%-(0/(' "/#*'+-"(' %"+4*@
&"(' 4&!(' #' ' -'."'+0/%!!/"' #"
$0-%"(' 2*++"/%' &"' "/#*'+-"' #"' #*!2"!' O '+0-@
(*/(' ' - ' !' O/#-(,!!-&/#*'+%"%'2' #!&-%@
40"#"(#-(2"!'(' '2 'B'O2"%%"!'
,!-"/#*%&0/%#[+"(-+4 *%"/%'(@
" c' ' & "1 %O-%&0-(("/#*'(0-' 40' &"(' &"%%%"(
#" (0 "%&"(' $"-/%"(' # +*/(%'0%-*' ,!!-& $O-(0-%
40'O%%"#"' (*!6O-%"&0'40-:'9 / :+
4' MR' I' &/7*!'#-' 20&+"' /#*'+-" !/' +"+H
' /#*'+-"& #*!&"!' ' +*/#' "/#*% #"(
2607-/(' +0-(' -& /' &"('7!' -% 40(' O9' !'
' ' 26'-(%-0/%(+' "/#% &0 #*!&"!' $*'%-$-'
&0' (*&!%-*/2;0/2"0/&"
1"(% O-/(-' ,!' &"' 2*++"'2"' 0'%"!. ' O'% #!"/@
#*'+-" % #" %*'+4"' &0 #-(2*'#"
" 'O ' ' ' 1"/#*'+-'/' ' *+;" #0/(
#" (*++"-&' O' 260-% '/*!(' *;&-7"' [' ."-&&"' 2"!:
,!-' ("/#*'+"/%' ' 0 ' M' #0/(
1"(% (!$ 2"%%%' &"2%!' ,!"' 9" +!'#*'(' (. MB' &
(1"/#*'%' -& (1 ."-&&"' 0!' (*/' #"(-/(%'!+"/%(' *
2*"!' 207' #0/(' &0 +*&"((" ' ' ' ' (')' /
(1"/#*'+0-% O!:' "(/%-+"/%(' #" # &-20%((" ,!!"&&"
.*!&0-% "40&-,!"' (0/(' &"("2*+4'"/#"' "/@
/!80-%"6 !&0/%;-' "' 'O++ 'NN I -7
10.+" 40(' (*-/' #"' (*/' #"' .*-' #"' ("(O$$0-%"(' /18
40(' ."-&&"' 1"/#*/+" #0/(' 1*-[-.'%' *$$&-"'(
(1"/#*'+"/%(!' &0 ;*/%' #"' &"!'('+0$-'"(
O ' #0/(' S' &0-(("0!:' #*'!2"'!:' &"
&0/707' O& % ['(1"/#*'% !/' "(4'-%' +&&"(' 6 @
; % ' ' # ' O' "(""!$(' (!' &"(,!"&&"(.%
"(4'-% (1"/#*'%' 'O " ' "'/*!(' "/@
#*'+*/(' 4*-/%' (!' &0 $*-' #"' &"!'(' 4' %'(' 9 '
C> " ' !' R' $-&(' ' 0(%6 ! (/' (1 %O-% 4*-/%
"/#*4%' (!' &" #0/7"' "($'[$'
' !' '$N ;(#!+"/%' ' 40((1"/#*'+-' ' %
%'[(@ ."-&&' (!' (-/%' %' %' ;"&&"#@+ /"
(1"/#*'% 4*-/%' % 21"(% (0/("(#*!%' ,!"&,!!'2*/(4-K
'O%-*/' 2"/%' .*(-/%' "&&"' 4!!((' "/%'"!' 4 ""
?' ' ' %*' & 8O#"(7"/(' ,!-/' (1"/K
#*'+"/% 40(' (.'MBY ' O (-&-' "+"/%' 1"/#*'+-'

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952 25 + 42 42 82<3 :9 G9 3 < 2.28 < E'28 4& +G_3B20
0 H7 ' "›? # ' "' 8 :93 G:9.G4 42
+:5J928 25 + 428 <:9B .= 5J2B 428 <:B328 ; + 8 *
39428 ' >' ::88' " ' 559R442 8' ; J5 K
.25.2 + G 54:552 .28 E 832825 + 428 93 B2J B48
428 < 88 538 23 82 B23 B2 4 58 95 3B: 3 B449 3
! 0 < ' 7# ' !-&' <75# '3'AE 0 <'
M0 4 58 ' – 5 25 + 420 ! ' "5' 2 4 3
42 < G.28 42 <+ 5*< 24 ?9 ': EB253 &952 4 58 & 9*
3B2' +98 29B8 < G.28 25 25 + 42' LL F]' B 2A325*
8) ' .G:828 ?9 '8289 E253 23 8&25.G +5253' !9582*
0529B 82 43 'B4. 32B0 < B ; 982 ; 253 952 +:5J92
25 + 42 42 5: ; 8 G M BB28 4&254B: 38 42 + ' :B43 H42
:53 52G+2 910 ' 70 N%' 2 5&283 < 8 952
Q5 + 42 L+2 83B:<=28 8:+428 4:53 :5 <9 882 8 58 5*
.:5E45 2G3 9J ; 2532B :9 4 ; 592B +2 5: ; GB20 5 *
'+ ' "' H - ' &283 42 3:93 .2+ ' 2582 ; G+2
?92 ; 2 3 53 .2332 25 + 42 42 49B2348 ?92 @&2889R '
428 ' < B30 6 'C # -- '< B3' 'LL 2B ; 20
; +3 B2' : ; 4:554' # 0 .3 :5 < B89 32 42 + ?92+2
+ ' .2 :9 +2 + 5.'4&95 :9RB J2 82B 3 2A<:84 4 B2*
'2E: B0 4 58+2 8258 42 8 '+:5J929B0 +2 29 42 &25*
52 ; ' B254B2 25 25 + 42' 2332 .2 42 + 42 ; *+952
283 2A<:842 4 &25 + 420 'LL 2B ; 2 42 ; K
B 52' :B422 <B25 53 +2 E +882 9 2552 ; '4 58 +2 8258
42 8 '+:5J929B' LL 2B ; 2 42 3B .3B .' :8 3 :5
4 58 + ?92+2 :5 283 . :58+ ; ; 253 G 339 < B 4*
E2B8 B20 8 58 <:9E: B 5' +2 G 33B2 5' ; 4 ; 2 @:92B
82 * ; 4 ; 20 42 8:B32 ?9& + <B254 42 89 32 95 JB 54
5: ; GB2 @+2 3B:98 23 J J52 8:9E253 + ' < B3 2
S' ' # ' > ?
+ 0 'Q 5* *+40 "2/0 # 'LL 0 5
?9:' :5 '< 884 95 ' 52 J9 ++2 25 42' @LL 33 *
.=4 E2.' 95 +' 5 ; 2 < R2B ' ; 28 43 38 42 <2B320
4 ; 253 42B3 G80 E 8G80 25 +G8 23 :9G+ G8 4 58 E:8
< <2B 8828' <' = ') ' + ' 0 F ' LL 2B ; 2 42 G+ *
8:5' 2 4 3 428 < G.28 B:5428 32++28 ?92 +28 . :9*
B:5528 +28 552+2380 23.' +:B8?9&2+28 8:53 < 88G28
4 58 428 + 5.280 4 58 428 8.280 23.'LL d 2B.G 42
< B3 25 < B3 < B 95 583B9 ; 253 +:5J 23 ; 5.2 ?9&:5
<293 . : ; < B2B G 95 +' 5 +G 4&95 . :9< 4&G<G2'
@0 ' 339 < B+2 . 5:5 4 58 +2 8258 42 8 '+:5J929B'
'JB 542 B:932 25 +G2 < B & B3 ++2B 2 2552 ; 2
'Q 5* *+2/0 / 'LL 6 882B 95' + 4 58
+2 3B:9 4&952 J9 ++20 4&952 <2B+20 23.' 5 +2B 952
2 J9 ++20 95 .= <2+23' LL J' 23 ; +2B2 ; 253' 2
5&283 < 8 <:9B 25 +2B 428 <2B+280 .&283*G*4 B2 .2 5&283
< 8 25 E 50 .2 5&283 < 8 8 58 ?923?92 ; :3 '. :=G'
83* + 32 ; <8 4&25 +2B 428 <2B+280 3 4& ++2B '+'
.= 882 9A ; 2B+28^ '3 ' / 'E' LL 2+'
52 8&25 +2 < 8 . : ; ; 2 428 <2B+280 82 4 3 42 .2B3 528
.G:828 ?9 '8:53 <+98 4 .+28 G B8 ?9&2+28 52 < *
B 88253' LL 2B ; 2 4&G< 5J+ 2B' 882B I '3G32 4&952
G< 5J+2 G+&254B: 3 : 3 2++2 4: 3 43B2 B EG2 ' LL d 2B.2B
42 < B3 25 < B3' ! . B352R0 ?9 ' +9 ' 82BE 3 42 82K
.:54 HG ! :=9510 25 +G +2 492 4&# ; +3:5 < B 42B*
B GB2 23 8&25 9 30 ! ' "0 " F' LL F ' 5 +2B 95
.=2 ; 50 952 B920 8&R 25J J2B' :98 25 +2M 3:93
4B: 30 8 58 ; :5 583B9.3 :50 2 JB 54 .=2 ; 5 4&25*
2B 23 42 <2B4 3 :50 9:5' > ' '5 0 "'
:98 E:98 ; J 52M G 25 ?9& 9 + 29 42 <B254B2 + '
B:932 49 .=2E + 5: B0 5:98 29 +G 528 .2+8 42 + '
; 8:5 : + G3 3 B3 M0 '2 ' ' 'B5' N'
5 +2B + 'B252++20 82 8 9E2B B 32' LL G8:+9 ; 253'
5 +2B G 4B: 320 G J 9.=20 <B254B2 +2 .=2 ; 5 ?9'
283G4B: 320 G J 9.=2' LL J' #29B2982 ; 253 ?92
>2 ; & <2B?98 ?92 @&25 + 8 952 9882 B:932 ?9'
; &GJ B 3 4 58 95 + GRB 53=2 ; ; 2582 '@'
'E' LL " ' .:532B0 4GG 32B' 9 54 95 <+ *
429B 8&25 E 253 ; &25 +2B 8:5 <B:2G80 $92+?92 . 982
988 3 3 ; &G< BJ52 95 ; + 42 3G320 ' '$|>, '
0 ' '+2 ; B'528&G3 3 3 . :55 +3B20 ++2 25 +*
+ 3 25 +2B G2 9.:9<<+98* :9B32 5&G3 30 <:9B 84B0
+ ' \RB 2++20 5' '* ' 54 8 ?9& 52 8
25 + '3 2'4 8. :9B8 . E ' ?92 E: +G0 8 'H '
/ ' / ' B+2M0 8:332 25 +28 + '= B 5J920 '
'2 ' ' ' B0 "' ! 4 ; 2 <B:32832
?9&2 +2 5& '@ ; 8 B 25 4 3 5' 3 ?9 ' < 3 4G<+ B20
23 25 +2 428 <+ 5328 23428 <B:3283 3 :580 ! 'W;
N' # G ++2B + ' G+2 25 = 83: B20 30 . 98 53 3:9*
@:9B8 42 ; G ; : B20 B:<:8 89B <B:<:8 25 +2B0 :98
.B: B2M ?92 .2 . B 23GB2 83 . +3G 42 < B+2B* @283
; <9 88 5.2 42 82 3 B20 ' ' '= 0
4' C0 4 58 ? 'S & <<9' 42 .2 ; 258:5J2
@&25 25 + ' .253 93B280 @ ' ' :3 88' '5' '@2
3&25 +2 25. :B2 .2++2*+G H.2332 = 83: B210 39 5&25
8230 8 @ ; 8 ?9 3320 <' ' '= ' 0 "NF'LLN6 *
; +GB2 ; 253' 5J J2B 4 58 952 < B3 2 42 @29 4G8 *
E 53 J2982' 5 28.B: :' & '25 +G 4 58 95 3B <:3 23
+ ' ' 3 <2B4B2 4 A ; +2 B 5.8' ' :9+ B2 ; 253'
B: ; <2B 25@G+2B : ++280 3 23 5 ++ .< 253
25 +G +28 ; :29B8 . +28 49 BGJ253 G + '8GBB 3942 49
< B+G35253 ! ' %' "0 Q C' 2 . : ; 32 G < B3*

E293 B2832B* @&2532548 ' 9M 552 ; & '3B = ' - ' K
J B:'P >2 &25 +2 23 +2 < R2 25 8 ' ; :55 20 '
> :B' 42 - ' B R ≫ N0 23 ; 2 42 3B .3B .'
B254B? 3 8 ' 320 23 . : ; ; 2 8& +8 G3 253 33 *
.=G8 2582 ; e0 95 JB 54 5: ; GB2 42 3B:98' >2
8 8 4 58 95 3B .3B .0 ?9 54 + 93 95 8: ; 428 + 8*
82B 428 4G8 =29B29A0 :9 .= BJG80 :9 < <G8n0 3
?9 54 ; :5 <+2 5 283 30 J B4 53 ; 28 E 53 J280
>&25 89G83 392 988 '4& 93B28 <B94253 23 8 J280$9 0
5&: B 53 G ; :5 JBG ?92 428 8 G 3:58 . :9<80 ! 2
:53 25 95 583 53 25 +2B 4:9M2 3B:980 '
, , ' ' Ad 2B ; 2 4& B3 ++2B 2 ' 33B2 4 58
+2 8258 42 + ' +:5J929B' 2 29 42 + ' +2 :B43 H42
.2332 3B 5.=G2' 5 +2B + ' .20 +2 + 5.'4&95 G 8K
3 :5' 5 +2B +2 .=2 ; 5 . :9E2B3' @L 2B ; 2 42 ; B 52'
B2B 25 25 + 42 89B :5 GG3 ; 253'LL B 2A3258 :5'
:B8?92 .28 . : ; G28 82 3B:9E253 8 39G28 42 ; 5 GB2
G G3B2 25 +G28 < B +28 E2538 B:+48 23 =9 ; 428 '
'> "' , ' '/ ' 6 'LLBl' :552B 89B0
G3B2 :9E2B3 89B0 25 < B+ 53 42 . : ; ; 95 . 3 :58' 8*
G*E 8 +280< 248 49 + 3 952 <:B320 <9 8 95 :B3 JB 54
. G 523 ?9 ' 4:55 3 4 58 & << B32 ; 253 42 @:9B 42
; :582 J529B +2 492 42 :9BJ:J520 ?92 .2332 <:B32
25 + 30 ! ' Q"0 " "' LL]' &25 +2B0 W' '
B2 25 +G' 2+ '8&25 +2 42 + '8:B32'LL 2 <2B.2B &95
0 93B2 40952 G<G2U 4&952 B ; 2' 28 429A 4E2B*
8 G280 82 <BG2 < 3 53 95 89B & 93B20 82 8:53
25 +G8' 2B ; 2 42 @29' &25J J2B 4 58 952 ; 9*
B 82 E2 520 8&25J J2B 4 58 952 <2B32 . :58 4GB G+2'
2B ; 2 42 3B .3B .' &25 +2B0 82 B2 25 +2B0 82'
+ 882B 25 +2B0 4 8<:82B 8:5 @29 42 32++2 8:B32 ?9&:5
52 <9 882 <+98 @:92B 8: * ; G ; 20 23 ?9&:5 8:3 . :5*
83 ; ; 253 G 3390 3 54 8 ?92 & 4B2B8 B2 <B254 42
89 32 95 JB 54 5: ; GB2 42 3B:98' '82 + 8 3 25 +2B0
?92 .&G3 3 952 GG5G4 .3 :50 '2 '
- ' # 0 A 968' 98 H59+I 49 ; 283 2B 42898 4 3 52
<92352 52 4: 359++28< 325:83B2825 ++2B0 8G2++2852
8953 B:5428 23 G 25 :9B ; G280 = / ' 'NC' :B8
3B 8 952 J9 ++2 4& BJ253 &95 J9 ++2B ; J5:3 23
J253' '<B 8 & J9 ++2 G 25 +2B0 '< '7 'LLAE 68'
B +G @&253 + R 3:93 4&95 3B 5 BJ +2 25 &4252 42
U9" ; 2 ; 8 G 0G3942 42 BJ +210 23 <9 8 '
0 "7C' &25 +2B '95 JB 54 B: :+2 42 .29+A ?9
@2 5& 9B: 8@ ; 8 .30+:*0 ' :9E253 +8 25 25 *
+: 253 H4&952 B ; 2I 429A G:9.+ 2B8 23 429A G: ; ; 28
B ; 2M0 ' 0 N ' 9G J5G0 283 53 253BG 4 58 :5K
3B 80 25 + '+'JB 542 B920 23<9 8 428.254Z3 9 ?9 R0
"G '9 'A5 ' 2<254 53 ?92 + B< 52 23 &"'B:'
42 E BB2 25 +:2?3 95 +:5J <:9B< B+2B E2.' +2 42
<B 5.2 23 & 4 ; B +0 ' "" ' 29A .$9+2EB *
52823 429A G 83 B428 ?9 '25 +: 253 + '. :9B3 52 5
JB 54 428 E 53 J2 428 88 GJ2M0 5' 1' ' +
_9+3 B2 G 8:5 2552 ; R < $3 4& BJ253 ?9 54 + 25*
+2 + ' 9 .320 '
(! ' "0 23 $-&5 G:9 J9 J' 5 ++ ' Q ; :9 +*
G28/
3' 3 'Q 5* *+29B/0 8' ; 'LL 0 9EB 2B ?9'
< ' ' +28 3G328 428 G< '+28 4 58 +28 GB 5.=' '
' * J' 2+9 ' ?9 '25 +2 428 < B:+28' . 5 42 .28
J5 :G+28 M: +280 2 .28 25 +29B8 42 4 .3R+280 : +G8
42 <=B 828 ; GG2 +28 3 42 .+ 88 ?928 <BG@9JG80
0 1& # # 'LLFW :<9+ B2 ; 253' B: ; <29B0
25@G+29B
- ' 'O I8' 5 +29B 42 <2B+28 HJB 54 4 8. :9*
B29BI0 : : #0 23
- ' N (! '< - #
' 'Q 5* *+9*B/0 ' ' LL 6 .3 :5 4&25*
++2B &25 9B2428 <2B+28 283 8:5 : . .9< 3 :5 '# 6 J'
9 32 25.= 52 ; 253
- ' # 'S 68' &283 &25 +29B2 42 5:8 J9 ++28
H 3 ; 53G28I 898<254928 952 42 & 9+3B20 , ' '
MM' 52 G2++2 25 +29B2 42 < B:+28 . :9B3: 8280 ; ' 0
7 ' 2+ ' <B:49 .30 <B2M0 952 25 +29B2 425 :9E2++28
.B9 932M0 ; '+90 Q"C
- ' (! '< - #
c 'Q 5* 5/0 / ' LL ' G +5 3 E2 ; 2530 <:9B
. :5.+9B2' ! 8 25 5 ?92 E:98 *3* + 4 3^' 5 5
E:98 &2 ; <:B32M0 23 + ' E:9B 49 B: ' :98 G+GE2 25
95 < 5J ?9 ' 5&G3 3 4 ' ?9&G ; : 0 ' - 'Y'
5 5 <:9B 8:5 G<:9 ' ' 3 .=: A 42 + 3 54B20
? ' ' / / ' ' &283 95 G: ; ; 2 '?9 ' := '
95 G: ; ; 2 ' 95 G: ; ; 2 25 52 ' 9 ' -'N'
5 5 3:93 .2 ?9& ; :9B '42 5:2948 <+98 <9 88 5380
:9A B2<B:2G280 3B 58<:B38 8 58 .2882 B25 88 5380
: 5 42 <+ B2 8 58 B30 .B 532 3:9@:9B8 5:9E2++20
2 93G0 J+: B20 E2B390 @2 3B:9E2 3:93 25 2++20
DC - '9 0 ' 5 5 + 93 49 8 5J <:9B + E2B ; :5'
5@9B20 6' '& '5' 'LL ' <BG8 952 3*
32532' 5 5 @2 E:98 3B:9E2' + BB E' 25 5' 5 5
5:98 5:98 B25. :53BG ; 28' 5 5 ! +=2BG2 E 530 23 +2
<B2 ; 2B 25 <B 5.20 3 8253 B 4 58 +28 EGB8 952
@9832 . 425.20 B3 <' ' 9 8:9< B28 25 5 23
82 ; G+28 32 3B:9G+2B0 'D ; '!'

- ' (' 'B ' 0 ? ' 5 5 23 &
+ ' 5 : B253 +2 ; G ; 2 ; :30 95 E2.' + ' <BG<:8 3 :5
- ' 23 & 93B2 E2.' + ' <BG<:8 3 :5 4 P .2 ?9 '52 3
< 8 952 8258 G+2 59 5.2 ' ! 8 &95 283 8 58 B3 .+20
23 & 93B2 ' B3 .+2 4G 5 P 42 8:B32 ?92 25 5 '952
8 J5 . 3 :5 <+98 G325492 ?9&G+ ' 5 952 A<B ; 53
952 5 JG52B +20 93B3B952 5 < B3 .9+ GB2' 5 5
+ +2 3B:9E 0 E293 4 B2 ?9& + +2 3B:9E ' <BG8 95 32 ; <8
4:53 + ' 5 BB E2 G + ' 5 + +2 3B:9E ' E293 4 B2
?9 + +2 3B:9E ' <BG8 952 5 < B3 . + GB2 8: 3 42 B2K
.=2B.=20 8: 3 4& 332532' 5 +2 ; 253 V8 J5 2 4&952
; 5 GB2 5 +20 <:9B 32B ; 52 ' .2 ?9 '+2 4 83 5J92
428 429A <BG2G425380 :93B2 ?9& + 283 ; : 58 B2a9 4 5@
+2 83R+2 G+GJ 53 23 :B5G ' 0
'O I (' S0 $-&J " (% + * '% 0-9$-/' (0/ (' / !&
' "%* ' < '4 ' "" 'LH O.-I' (' "(&0-(("" ' " + ; * ! ' ; " "
'"% " +4"(% ' " " '/2* ' "4& ! (, ! !-&(/ " $* / % ' "% (- 0.0/%'
(1-& "(% 4*((- ; & " ' , ! !" /$& / -&((" ' "2*7/*-(&0/% ?
' RM
(! ' > ' ' "% [%5' ('
! F@# ' 'Q 5* + * ; G0 ; G2/0 # ' "'
' dQ - 283 25 + ; ; 2' :98 ?92 ; :5 GB 8 E25J2 3
4 58 28G:8 25 + ; ; G20 ' 0? / ' E0 N 'H +I 2
B:932 23 +29B <BG82532 952 J929+2 25 + ; ; G2 $9'
+28. :9EB2 42 290 42 8 5J 23 42 9 ; G20 " ' GG4
0 N' $9 540 89B 3:5 8: ; ; 23 25 + ; ; G0 58 95
59 J2 G< 8 +2 2 J529B 25 2B ; G ' "' ? & ' 0
" ' 5 A J:B2 E 3 4 3 ?92 +2 8:+2 + 5&G3 3 ?90952
< 2BB2 :9 ?9&952 + ; 2 42 ; G3 + 25 + ; ; G2* + ++ 3
+2 . :54 ; 52B . : ; ; 2 <GR8 . 25* :5 . . 98 '40 ; *
< G3G0 + '? - (& ' .G 'C7 ' BG8 4&95 .GG52 25K
+ ; ; G 42E 53 ; : ' 82 <BG8253253 B: 8 2 ; ; 28 '
-('C (& ' - ' 'LL :G3 ?92 ; 253' G B2+9 8253
+28 ; ; 28' 28 + ; G2 9A0 .2 'GG2=2B0 .2332 59 3
25 + ; ; G20 ' D"# ' - ' 'NN I $9' 283 4&952 B:5K
J29B . : ; ; 2 42 + ; ; 2' ++2 82 8 9E2 4 58 +28 GB 8
42 8 ' ; GB2 23 . .=2 4 58 .2 82 5' ; 32B52 + 8:5 E K
8 J2 25 + ; ; G 42 = . :5320 @ ' ' " 'P '5 ' 2 + 4=
=GB 882 8 ' .B 5 GB20 ; 2 ; ; 253B2 828 42538 23 828
JB +280 :9EB2 952 J929+2 8G2G2 023 25 + ; ; G20
' \ ' - ' 2 828 R29 '25 + ; ; G8 @& 'E9 3 : ; *0
G2B428 <+29B80 9 ' , -(# 'E0 ' " >I FO J' $9 '283
25 <B: 2 6 952 < 88 :5 . : ; < BG2 6 + ' + ; ; 2' :98
<:9B B 83 2 25 + ; ; G8 42 E25J2 5.20 '@ - '
0 N' 5 + ; ; G 42 . :9BB:9A & E: B <2B49 ; :5
; 33B2 23 42 .B 54B2 <:9B E:980 5' ' ! ' ' '
:B8?92 +2 B: ' .253B2 2++2 25 + ; ; G 424G< 30
< & ' ' :9@:9B8 49 ; G ; 2 ; :9B 39 ; 2 E: 8
25 + ; ; G0 " 'C &# ' 0 ' LL + 82 4 3 988 '4&952
< 88 :5 ; B?9G2 4 58 +2 B2J B40 4 58 +28 8:9*
< B80 23.' H JB << 52I 4&55 .2 + 25 + ; ; G 332838
+28 8 538 4B: 38 4&95 5:294 ?9&2+2 ' :B ; G0
D# '7 ' ' ! 4 ; 20 4:932M*E:98 428 8:9< B8 -)'
+ ; ; G8 2 429A @29528 ; 538 95 42 & 93B2
. B ; G8^ " 'D ' 50 ' LL :9BB:9A 25 + ; ; G0
. :9BB:9A B4253 . : ; ; 2 952 + ; ; 2' #G ?9: ' ' ('
. :9BB:9A 25 + ; ; G 253B2 95 5JB 33 '? '? - "#'
350 ' :R' # <:9B 95 2 ; <+:' 82 ; G+ G+2'
@L 6 5 <B: 2 9 ; G. :532532 ; 253 <:+ 3 ?920 8:9*
+2EG' ' B23 J52 283 <+98 25 + ; ; G2 ?92 @ ; 8*
! ; 2 42 = 9+528 5&283 < 8 <B 8:55 GB2 25 :B ; 20
; 8 :52 42 828 ; 28 E:94B 3 42 3:93 8:5' . :29B
?9&2+2 G2 43 < 8 ' 25528 8GE' + &) ' "7' M'
; 7 ' "'C%' 6 2B ; 2 42 ; G42. 52' +B 53 +28
. B 23GB28 42 & 5 ; ; 3 :5' ' <+GEBG 25 + ; "
; G2
3' ! ! ! 'Q 5* + * ; 2*B5 5/08 ' ; &23 3
42 .2 ?9 '283 25 + ; ; G
- '# 'O I8' :B +2 JB 53 25 + 5G2 ; 253 42 8'
<258G20 C & ' + 0 N
- ' (! '< - #' 0
'V 5* + * ; G/0 E' 'LL +6 # 233B2 25
290 25 + ; ; 28' + 52 93 8:9E253 ?9&952 G3 5.2 +2
<:9B 3:93 25 + ; ; 2B' =' ' ?92+8 . :9<8 42 3:552BB:'
53 25 + ; ; G+2 . 2+ 23 :53 3B2 ; G+2B + '32BB2+ 9 '
@ # 'E0 N' LL 6 J' A. 32B . : ; ; 2 952 + ; ; 2
4 58 +2 . .29B0 4 58 & ; 2' &=: ; ; 2 283 58 'GG3 '
?9 54 9589@23 &25 + ; ; 2 & ; <:88 G =3G4 8< B '
)'8:5 B520 ' 8 '5 *' %'>2 8 ; ; G 25
283 <9B +2MG 2 ?9 '3&25 ; ; 20 '< & ' - 'N' !
MG+2 ?9 ' <:9B 3: ' 25 + ; ; 2 23 +2 4GE:B20 ' '
#! ' 9B3:93 42 ; :5 +29+ 23 2A2 ; <+2 23 'J+: B2
!&25 + ; ; 2 '3:93 ; ; ; 253 23 B2 ; <+ 3 ; ' ; G ; : B20
? '6 ' '54B: ; .' 0 F' 2332 6 '?9&25 + ; ; 3
95 . :9B J2 53BG< 420 9 5.B E0 N' G . :9BB:9A
?9 ' & J530 +2 <: 8:5 ?9 ' &25 ; 20 '?5 ' 0 '
>&25 + ; ; 2B '8:5@2952 . .29B42 3:98 +28 8253 ; 2538
4& ; 3 G0 42 JG:G :8 3G0 42 B2. :55 88 5.2 ?92@& '4G*
@ ' 3 5 + ; 2 23 ?9 '8:538 '4:9A '5:9BB B0 S ' '88'
> , ' B 83:32 G.+ B 38:5 28<B 30 + 3 :5 25 + ; *
; 38:5 6 D? \ ? + ? - (& # ' .=' N' 28 9B295'
#! 4G8 B 8:5 8 5J 283 +9 ; G' 0 . :9B:552 &25*
+ ; ; 223+2' .+3 B ; 2 283 :B ; G0 R. 80 C * &

F ' ' '82 4 3 988 '428 < 88 :58 ?9 ' GB +253 23 2 ; # , 1
<:B3253 ' &:< 5 _3B2 428 = G 3 538 25 + ; ; ' 8 ' . :
B2 E 2 ' U ' 1 ' ' E50 4 58 ' =+ ?92
:58 25 + ; ; 2M ; :5 4Na B .9B 29A '
' C ' ' 0 B2 5 +3B2 + ' < 88 :5 42 & ; ; 9B ' 5
4 :9A B2J B4 ' 89 ' <:9B &25 + ; 2B ' :50 .2 5&283
5 ' < B .=: A 5 ' < BB 8 :5 4& < 2B $9&25 E :R 53 .2 ?9 '
<+ 3 :5 82 + 882 25 + ; ; 2B0 B ' ' ? # -
' "W 2B ; 2 42 ; 42. 523 982B &5 + ; ; 3 :5 '
+ 52 < ?4B2 +9 ' 25 + ; ; ' >2 4 : J3 ' & B825 . ' 25
+ ; ; 2 0283 : ; : ' LL J ' 28 E2 ++28 25 + ; ; 253 +2
8 5J ' ' 1 &25 + ; ; 2B0 AU # ' B254B2 29 ' 2 G : 8
8&25 + ; ; 2 . +2 ; 253[@L J ' $92 + ' J92BB2 8&25
+ ; ; 2 23 @ ; 8 52 5 8820 & + 930 E2. ' + ' < A0
B2.2E : B< : +R5 .20 [' , C ' B0 % ' NN & 2< 88 :552B0
8& 5 ; 2B0 8&2 : <:B32B ' 23 = : ; ; 2 8&25 ; ; 2 . +2
; 253 ++8 8&25 + ; ; 25342 D ; ; 9B 42 + ' J+ : B20 F '
, ' S ' ; 8?92 8 ; 253 8&25 + ; ; 2 9A ; 2B
E2 ++28 428 B380 ' 32 ?920 50 ' LL + 82 4 3
988 ' 42 < 88 :58 ?9 ' ' ".+ 3253 4 58 +28 R29A0 4 58 +2
8 5J0 23. ' :98 2988 2M E9 +29B8 R29A 8&25 + ; ; 2B
42 . : + ' B20 ' 1 - - ' - ' Y ' :93 ; ; :5 8 5J 42 . :
4B2 23 42 = :532 8&25 + 53 ; 20 ' < & ' ; 0 '
' C ' 3B2 8 8 ' 49 8253 ; 253 42 & ; ; 9B ' &283 +2 8 :B3
42 ; :5 8 5J 42 8&25 + ; ; 2B <:9B ' C
K ' 0 N ' # F& ' 2B ; 2 42 ; ' 42. 52 ' B254B2 +28 .
B .3 ' B28 42 & 5 + ; ; 3 :5 ' 32 ' <:9 ; 5 8&25 + ; ;
- ' ' A56 8 ' B 25 + ; ; 2M 283 + ' ; 258 :92B8 '
+ # ' / ' <V 7C ' 28 G+ 5 .=28 ; 580 828 4 : J38
:58 23 3B23 80 $9 ' :53 & ; :B 25 + ; 2B 23 28<B25
4B20 1 !7 ' E ' $9 53 E2 + + ' B2 8 #25B 8 ?92 E2 5 .B2
52 + <9BB 0 ! 9+3 49B2 ; 253 E2B8 +9 ' 25 ' B2 8&25 ; G 0
, & ' ' ' 7F ' R A ; 68 ' 3 : B8 25E : 839 = + ' 3 G+2 '
3 :2 H3 I JB .2 28<2B 3 G+2 ' :9 53 8<2B 325 + ; 720
$92 3 53 9 @ :+2 23 ; "20 ' 0 bb19
! :R828 8R E 3 95 G9 88 :5 :93 25 B ; G ' 8 58 59+2
B89B2 ' C # ' " ' @ ' < ' 1 ' 93 952 Q4 :82 ?9 ' ; :9+3
25 + ; ; ' .29A 42 540 # ' 0 0 "N ' B 548
23 <9 88 58 B :R 9 ; 280 ?9 ' <29 9< B E 53 283 : 253
(- "/$&0 + ; "< 1! (' 2* /% ' ' 10 ! % ' " ' "% %0 / % " +4" (26"<
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283+2 ' ; 2 ; :30 E2. ' & 532B<:8 3 :5 4&95 G <<2+4
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3 ' Q 5* +&/080 ; >29 ' 42. B328 ?9 ' 82 @292 E2.
95 @29 ' . : ; <+23 23 *95 5 : ; GB2 54 32B ; 54 ' 42 @ :929B8
c0 c ' Q 5B +40 42/0 " ' " ' LL & $9 ' 283
42E259 ' <+98 E :+9 ; 529A ?9 ' 5&43 ' ' ' ' ' 2 . :B<8
3 :93 2 +4 ' :5 < 24 283 2? +4 4&952 253 :B82 ' >0 ' + '
3432 <+98 JB :882 ?92 +2 < : <J0 23 8 ' 5&283 *2+2 < 825
+420 ! ' ' , ' N ' R 3B2 25 +40 43B2 =R
4 : : ?92 ' LL B 2A3258 :5 ' 52 <9 88 5 .2 ?9 ' 283
4& . . 42530 ?9 ' 52 <293 < 49B2B0 ?9 ' 5&283 < 8 5
39B2 ++20 23 ?9 ' 283 <+9343 25 +42 ?9& JB 54 20 !
$ ' 0 253 ' B ' # 9G83 5 +E2 ; 253 ' 5 JB :8 = : ; ; 2 '
&283 .2 JB :8 25 +4 42 . :582 ++2B0 ' :B '
- ' -$& ' N ' LL 58 +28< B 428 23 4 58 95 + 5J J2
3B48 *3B E + ' # 4 &25 +4 ' 25 <<2+ 53 95 JB :8 = : ; ; 2
4 :53 :5 52 8 +3 < 8 +2 5 : ; ' LL 6 $9 ' 434 JB :88 < B
589 + 3 :5 ' 5 G ++ :5 25 +4 ' LL c3B4 25 +4 . : ; ; 2 95
G ++ :50 43B2 3B48 *25 +4 23 J ' E : B 95 :BJ92 + 2A
.288 ' ' S ?9 ' + ' . :5 5 .20 +2 ; 9B J20 + ' <B4U
8 : ; <3 :5 253 .B4 ' 3 .28 JB 548 . :29B8 25 +48 49
5B9 3 42 +29B8 . : ; G 380 ' . ' ' 5 +4 42
8 ' E .3 : B2 23 428 B288253 ; 2538 $9&952 <2B32 <
' 2 ; < ; 2 9A EB 8 ; 5380 : ' 0 " ' 50 " '
23 :BJ92 29A 28<B 3 25 +4 42 828 89 . . 480 ' .
30 " ' 3 ?9 54 @2 <9 8 E25 B0 25 +4 4&952 5 :9E2 ++20
; 52B 4 8 :5 B2< :8 952 332 532 ; :B32 ++20 &283
+ :B8 ?92 <+98 ; D ; 20 ' ! ' 2 ' + 0 3 +
+2 E :R 3 25 +4 4& :BJ92 + < B 8 ' ?9 +34 42 '
0 / ' 5 ' 2 E 5 ?929B0 25 +4 42 828 + 3B280 3 : ; '
32B ' +9 * ; 4 ; 2 48 :5 3 :9B253B2 +28 ; 58 42 +
= :B30 ' ' , * ' &C ' 5 +48 4&952 8 G2+2 :B
J 520 +8 82 .B?R 253 8 538 < B 5 39B2 23 5 :5 < B
JB .20 7 A ' ' N ' 2<254 530 4 +28 E : B 25 +48
42 3 53 4& 94 .20 2 <B : ; 233B2 25 +29B 5 : ; ' +28
E29B849 B5 882 ' ' ! * ' , ' ! 8 .B :R2M6
E :98 ?9&95 <B 5 .2 25 +4 42 3 53 4& 94 .2 '
&) ' ' - ' 283 25 +4 42 8 ' E .3 : B20 # ' 9 ' A 9
"6 B :882 5 . : ; <32 25 +4 5 8 :5 25 +4 ' LL B
2A3258 :5 ' 5 82 <2B89 42 ' ?92 5 :8 G+28 2 :B38
25 +48 42 5 :8 3 3B28 23 42 5 :8 4 J5 348 :53 +2 ; 4 ; 2
<: 48 4 58 + ' G +85 .2 49 8 :9E2B ' 5 @9J2 ?92 +28 @98K
3 .28 +28 <+98 G :54 53280 ' 0 ' # ' = , '
' $9 ' 0 42 &2 ; <= 82 &0 44 93 49 83R+2 25 +40
:&28342 4 : B 2B 9 42+4 49 JB 540 6 ' / -

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4& B ' +254B * @20 25 952 ' + : J92 253 :9 4 42 3B :9
<2 9A0 9 ; + 29 42 B 8 25 +28 ; 28 .= +9 ; 2 9A
' ' 0 ' ' B :88 B0 25 B2 ; <+ 88 53 4& B0 42
J M ' : +2B 95 G ++ :5 ' 5 +2B 828 @ :928 ' 2 34+8
! 25 38 25 +253 + ' G :92G2 42 + ' B25 : ; ; 420 9
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+28 B254 3254928 < B +2 8 :9 +2 ' 2 J45 2 ?9 ' ; & 5
8< B 3 ; & G 54 :55 P ; 25 28<B 323 ; :5 4 ; 2 3 : ; +
G4B253 + 5J9 88 538 . : ; ; 2 +28 : +28 4695 5 E B2
9?923 3 :93 4 . :9< ; 5 ?92 +2 E253 ?9 ' +28 25 + 30
' A ' ' ' E : 3 +28 < 88 :580 89B 952
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E : +280 82 4 3 42 .2 ?9 ' E :B 820 3 E 5 .2B ' 2 E253
42 + ' E29B 25 + 3 +29B8 E : +280 LL B :88 B 25 B2 ; K
<+ 88 53 4&95 + ?9 42 ' &2 9 25 +2 +2 E253B2 4&95 =RK
4B : < ?92 ' 28 3 : :B38 ?92 +2 <23 3 = : ; ; 2 E 3 38
<:9B 3 B2B 8 :5 < 24 ' = :B8 49 < :3 & E 253 25 +40
8 . 0 < ' * ' < B30 50 . = ' ' 28 <B4 ' H42
+ ' B 5 .21 25 +253 42 + 3 + ' 4 . :542 <?45 8820 '
# ' 4 ' " ' - ' * ' LL & J ' B2 < B 3B2
<+98 JB 54 < B 952 8 :B32 4&25 +9B2 25 4 2B253
42 :29A ?9 ' B 882 ; G+2 =3 +2 <+98 42 3 3B28 ?9& +8
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4025 +2B +29B 5 : ; ' 0 ') ' 988
343 ' 39 E2BB 8 < :23280 :B 329B8 ' 2 328 3 3B28
< : ; <298 25 +2B +29B8 444 . 280 ' # ' E_ '
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39 B << :B3283 =4320 3 42 3 :5 . :B 25 +28 +2 8 :50 #
' 0 ' * ' LL "6 9J ; 2532B < B3& +9A 4&95 #
?9 42 ' 28 <+9 28 :53 25 +4 + ' B E 4B2 ' LL J ' 2 ; ; +2
2A< + : 38 ; ; 29A 25 +2B ; ' B25 : ; ; 420
0 ' $9& ; < : 32 42 ; : : : :29B0 8 / @2 89 8 ; ; :5 42E : B0
3 8 ' ; : 5 =R ; 4542 25 +2 E :3B2 < : 9E : B " ' #
' Y ' 48+& G :B4 ' +893 E 5 .B20 23 @& E9 + ' E .3 : B2
5 +2B 42 @ :9B 25 @ :9B 8 ' <9 88 5 .2 23 8 ' J+ : B2 ' 5 '
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B ; 420 *3 *2+2 B2 984 4&25 +2B 8 ' B25 : ; ; 42 " " ' ')
. : ; ' ' ' 98 E :58 G2 9 25 +2B 5 :8 . ; 5 .2 <3 :580
5 :98 5& ' 53 :58 ?92 428 3 : ; 280 ' 4 58 V
' ' <+9B + 34 428 3 3B28 ?92 E :98 < :88442M 23 ?9 '
25 +253 8 ' :B3 E :3B2 B2E2590 ' ' < / '
' NN d A J4B2B0 89B B2 ' 5 +2B + ' 44<2582 '
5 +29B 2A J4B2 3 :9@ :9B8 +28 5 . :5E4 2538 4&95
43 3 := & 534B43 4&952 ; 8 :5 52 +28 42 ; 542 < 8
:5 +29B 25 +2 +28 E 53 J28 23 +28 JB4 ; 2538 42 .2+9 '
9?924 * / ' +28 4283 520 ' ' G& ' 95 <29 25 +40
3 J20 8 E 53 5 :3B2 . + .9+0 ?92 @& ' 95 <29 25 +40
' = ' ' ' , ' ' , ' > ' / * , ' S
' 5 ' R ' ' @<< B25 .2 ?92 .2 <B 5 .2 H&2 ; <2B29B
! ; 5 ' 25 + 3 +28 .G :8280 , C ' < ' M '
! ' 4 ; ' J5 :B 3 23 . .= 3 8 :5 ; 4B 32 E2. ' +2
; 4 ; 2 8 : 5 ?92 3 53 4& 93B28 82 4 :55253 <:9B 43 +2B
23 <:9B 25 +2B 4 +29B0 Q ' > ' *+

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' + & &25 +2B0 : ' ' 2E25 B 25 +4 ' 2 G ++ :5 8025 +
+2532 ; 253 @52JB25 :9 +2E 395G :29 $9 +9 ' 82 ; G+ '
42 G2+2 3 3+4 ++2 ?9 ' 5&43 3 < 8 JB :882 25 3 :93
. : ; ; 2 95 .29 0 5E 29820 8&43254 0 23 8&25 +2 8&253
3B E ++20 ' G+ ' 0 ' + R ' 4 58 &28<B 3
. : ; ; 2 95 +2E 5 4& :BJ92 + ?9 ' 8&25 +2 23 82 4 + 32
< B + ' 8 . 25 .20 # ' 0 ' ' 0 ' 28 E : +28
8&25 +253 4&95 E253 E :B G+20 # ' ' 1 9 ' LL 2E2K
5 B 39 ; 4 4 ' 82 4 :55 ' 952 253 :B820 23 8 :5 < 24
8&25 + ' G2 9 . :9 < ' 2332 J :BJ2 ?9 ' 8&25 +20 ' < S
' E0 " ' ' 3B2 8 :9+2E4 ' & :542 8&25 +2 4288 :98
H+28 E 882 9AI0 23 4&95 . : ; ; 95 2 :B3 28 ! 9B28
23 + ' ; 2B ; :53253 @98?928 9 < :B30
' ' 2E25 B <+98 JB :80 <+98 ; <+2 ' B ?9 '
+2 ; :542 253 2B ' & ' E9 <2 <29<+2 42 ; ; 2I
.253 :8 ; B . =2B 89B + ' 3432 428 B : 80 :?4< BJ52
8&25 +28 49 8 . ' # " ' +29B8 <B :E 5 .280 ' 1 - -
' ' 29B 3B48 :B 5& ' < 8 G28 : ' 42 8&25 +2B 428
G+28 44GB 8 4&952 ; +2 ; =29B29820 9
= , ' $3 ' " ' :93 " . :9< + ' + ; ; 2 25J :9B 0
4 2 a&2 +20 44G :B42 23 & 5 .254 2 ; GB 82 95 ; '
; 2582 = :B M := 0 ' A ' 0 M ' NN %& I 025
:BJ92 ++ B ' 2R2M . : ; ; 2 2+2 8&25 +2 23 4& :BJ92 + 23
4& 94 .20 ' 0 ' 2B328 08 ' @2 ; &25 + 8
42 .28 E 528 9 ; 428 :53 :5 E : 3 " ' + ' . :9B 3 53
4& " ; 28 8 2G B ; 4280 ' 9 ' 0 " ' $92 E2BB 253
+8 25 29A ?9& +8 <988253 283 ; 2B0 & +8 E :R 253 42
E 53 3 : .2 ?9&283 +29B .= B B +J2 ; ; 253 8 :9
B B 253 +8 ?5&952 ; 882 4& BJ +2 &2< + " 3 . :53B2 + '
D ; 5 ?9 ' E 253 42 + ' :B ; 2B ' $ ' 0 " " ' 2
E :98 25 +2M 4<52 < 8 4&952 ' JB 542 J+ : B20
A ' 50 N ' 2 M4+2 ?9 ' <B254 8 ' 8 :9B .2 4 58 + ' . =
B 340 .&283 95 M4+2 4 :9A 23 < 3 253 ' + 52 8& BB 32
< : 530 + 52 8&25 +2 < : 530 ' U ' " '
' ' :98 93B28 @9J280 H5 :98I 52 5 :98
25 + :58 < 8 4&952 E 52 8 . 25 .20 C ' = '
" ' NF ' + 43 3 ; <:88 G+2 ?92 + ' <+9< B3 428 @4
89 328 52 8&25 + 88253 49 E253 42 .28 429A = : ; ; 28
H+2 ' 42 + ' = 82 23 +2 ' +2 2++ 2BI0 23 ?9& + '
52 988253 988 ' 58 :+2538 ?92 +28 + ?9 8 49 ; BK
?9 8 42 :9E : 80 9 ' ! ' " ' , ' LL 3B2
2A J4B4 ' + R ' 3 53 4& = : ; ; 28 5 39B2+2 ; 253 :93B43
23 4 58 + ' G :9 . =2 428 ?92 +8 3 :93 8&25 +2 ' 3 :93 JBG88 +30
3 :93 8 :B3 42 3 ' E4B 34 8 ; <+2 23 5 39B2 ++20 '
0 ' ' ' LL B254B2 95 3 :50 95 83R+2 ; < :9+ '
5 < : 32 8&2< +20 82 J9 5420 3 82 .B : 3 9 8 : ; ; 23
49 542 :9B 42 JB 548 ; :38 E 428 42 82580 !
' C ' 0 ' < ' " " 0 4 58
' 0-% I (' ? " (-&- " U + ## "2- / "J 6- (" -26 "% & " %

[illegible]

.= <2 9? :5' 4 3' 42' ; ;2' +2' . 8?92' 25' 3432' 9' + 29' 42' + ' 3432' 2<' . 8?92' ' LL J' 5 :5.2B' 8:5' .= <2 90' <B254B2' 952' 33 3942' 42' 4432B ; 540' 23' 988' ' <B254B2' :52' B28:+93 :5' G B4 2' 5 :5.2 3:5' G:5523' 25' ; 4' .= 53' J B' :50' ' #* " ' 0' 2' < B3 .9+ 2B0' 25 :5. 53' 8:5' .= <2 9' 89B' 8 ' 3432' +9 ' B4<:54 3'?9& 52' 8&253254 3' <: 53' 25' G 8*B2+ 2 80' ' # ;0 0' J>,/ ' 3' AE0' <' ; ' 4 58' ' 2B ; 8' 42' ; 54J2' 5 :5.2B' +28' 4<2B:58' = 95' .=2E +0' +28' +9' B2' 8253 B' E2.' E :+25.2' L' J' 5 :5.2B' + ?92+?9&95' +2' <: J5 B4' 4 58' +2' 82 50' +9' . 982B' 95' 3B48*E ' .= JB 50' 952' <2B32' .B92+2' ! 8' ! B4:.=42' 88 8' 9A' <:B328' 49' < + 8' 58' .2' .:29B' ; +=29B29A' 25 :5.2' ; +2' 3B 380' ' > 90' Q' 5 :5.:58' 4 58' 8:5' .:29B' +2' 3B 3' ?9' +2' 44.= B20' ' ' , , ' 9 0' Y' ' d' 4:+:J 8 ; 2' 23' <:<9+ B2* ; 253' 5.B20' 44@:92B' :9' B9 52B' ?92+?9&95' ' &' 25 :5.4' >2A253B 8' 4 58' + ' .:9+ 882' 9' ; + 29' 4&95' ; 9B ; 9B2' J252B +?' .2' ?9' ; &25 :5. ' @98?9& 9' 3B: * 8 4 ; 2' 4288:980' ' 2 ' 6 , ' 8.' 3' :B.2B0' GB 82B0' B2' 952' :9E2B39B2' 4 58' +28' < K B:+8' 980' 8980' GB 8:58' + ' <:B380' 25 :5.:58' + ' ; 8:50' A ' E0' O' ' .2' <2:<+2' 952' : 8' 25K :5.2' +2' < + 80' ' > ' E0' ' 2332' <23 32' +2' 42' 4 A*82<3' 58' ' 4:52' B54' .2' 4:5' $9 .=:332? 23' = 2B' +' + ' E2.' . 5?' :9' 8 A' J B428' 42' ! ' 42' 4EB28' 25 :5.2B' + ' JB +2' 49' .:9E253' E2.' 952' G42=2' 23' 428' .:9<8' B24:9G+280' 8cE' % " 9' < + 8' 42' ! 4B:<2' :5' 25 :5.2' + ' <:B32' ' > 4B' E0' ' * 5 :5.2B' 952' .N320' + ' GB 82B' LL J' ! 233B2' ' ; +' 2' 8:R2M' <: 53' @9J20' 8' E:98' 52' <:9f2M' 25 :5.2B' < B' :B.2' & 5 * ?9 320' 0 ' ' B' ' J' 23' ; + 2B2* ; 253' 5 :5.2B' 952' <:B32' :9E2B320' 82' E 532B' 4& E: B' 89B ; :532' 95' :G83 .+2' ?9' 5&2A 83 3' < 8' LL" 0' 2B ; 2' ; + 3 B2' ! 233B2' 952' 3B:9<2' 25' 448:B4B2' 23+ ' :B.2B' 6' <+ 2B' ' G 3 +2' B2.: ; ; 25. ' <:9B' + ' 3B: 8 4 ; 2' : 8' E2.' <+98' 42' 9B 2' 23' 4& .= B52 ; 253? 25 5' +2' 5: ; GB2' &2 ; <:B3 ? +28' 944: 8' 9B253' B: ; <980' 25* :5.28' 23' <:98848' @98?9&" +29B' G J J20' S 'B ' 2' 3:9328' < B38' :5' <2B.20' :5' 25 :9.2' +29B8' B 5J80' ' #' ' ' ' < ; 5:54 8' 8* 89B442' + ' E .3: B2' 8& +' <253' 25 :5.2B' .2332' +2' 8' B2* 4:93 G+20' ' 5' :.= .= <' 3' LL%] A ; 52B' 4 :540' <4543B2B' 9' ; : 58' 5&25 :5.253*+8' J94B2' +29B8' B280' 23' 52' +28' .:549 8253' ?92' B B2 ; 253' 4 +29B' 42B5 2B' < : 530' ' %6 * ' ' ' :98' 3B:9E:58' 4 58' +29B8' 28<B 38' 428' 5.2B3 39428' ?9 54' 5:98' 25 :5?:58' E2.' 29A' + ' ; 3 4B2' 42' + ' .: ; ; 9K 5 :50' ' (! ' (5&:53' < 80' 8' @&:82' +2' 4 B20' 429A' <:9.28' 42' <B: :5429B' 8' E:98' +28' 25 :5.2M' E:98' B25..:53B2M' +2' 39 0' ' E ; ' ! ; 2' + ' 49* .=2882' 4& B+4 58' 5& 9B 3 9' + ' JB422' 5' + ' B.2' 54* .288 3B2' <:9B' +2' +9' G 25' 25 :5.2B' H.:5E 5.B2' + ' 49.=2882' 42' :9BJ:J52' 42' & ; <:B3 5.2' 49' ; B J2' 49' 492' 42' 2BBR E2.' ! 42 ; : 82+2>0' ' 43 : :
"% "+4&*-' #!"/$*/2"' 0' .-"-&&-' NM' "' + " #" %*/@ /"&-"' ?"%%' &" $*/# # ! /' $!%0-&&' NN Ad S*-/#' "/("+ ;&" %*!%"(&"(40'%-"(#! /' *! .'07" #" &08"%@ %"'-"' NN BF "' +" #" 4*%-"' /$*/2"' !/' 4&0%' &"$0-'" 4&! (2' "! :' *!' 4&! (4' *$*/#' &N)F "' +" #" 7'0 "!' "/#' 4&! (2' "! :' NN F "' +" #!-+4'-@ +"'-"' /$*/2"' !/' &-7/" +"%%" /' 20#'0%-/ 0!' 2*++"/2"+"/%#! ! /" &-7/" , !-' (!-%-++##-0%-/' +"/%! /' 0&-/#0' NN F "' +" #" $0!2*/ /"'-"' */#' (!" &0' 4'*-" "/' &0' 4*! ((0/%9! (, !!#-0' "+-(" 1#@ 4" . -" . -"/%#!"/$*/2" &0' 4"'#'-:" %0 ; (*&! +"/%' !*-"(0!' "/$*/2" NN F 3' X' &&" 0!' $*/#' 0 /0K 2"&&" "/$*/90' /$*/2"' #0/(! /' ;*!'6-""9! (*!0! *" -&&"(NN 0" ":%"/(-*/' -"@+*-#" 2"%%" ;*!" #' 9" /"(0!'0-(+0'26"" (0/("/$*/2"'%*! (&"(9*!' (#0@ .0/%07"' ? ' 0 +, ' -9" 4*!.0-(4#/#%" #0/(&" ("2"% #"($0+-&-"(#9" %"*!."'0-(-//*@ 2"/2" 4'#&" # "/$*/2"' "% 4'#(".#" #"/0!$'07" ' C' , ' H ' NN -7' ?0-("/$*/2*/(#0.0/@ %07" #0/(&" (("/%-+" /%(#! +-/-(%"' ' 0' DR' 0 2*! ' . "!%%*!9*! (! /-"&" (4&0-(-' (0. "2 &" (0$$0-K '"(' "/$*/2"<' . *! (%*! ."' "<40'%*! %#" /-/ #' #%(2026#(' #" (90&*! (-" (##-20%" (, !- 20! ("/% ! /' " !/@ %'#++" ("/(-;-&-%#' "%' #0/(! /' 0' #"/%" 0+ ;-%-*/' #"((*-/("% ! /' (#'-"! :' 0! ((-' %'-(%" , !!-& "(% .0-/' '& ' 2 ' ?*/%"<0!:' $"++" (2*+ ;-"/' "&&" ((*/% -/2040 ;&" (#!"/$*/2" #0/(&" (#-$$-2! &%#(#! #'*-%' # ' %' :.-' 4' B)' NN YF 1"/$*/2"' / *!26"' 4#/#%" #0/(! /' $*/#' " .0-(("0!' (1"/@ $*/2" #0/(&" (.07! "(' &0 ("2*/#" 9*! ' /#" #" !: 1#" &" ! (-/*!%*/((1"/$*/"#""/% #0/(#" (+0'0-(' V ' D) ' "% "0-/' , !!-& 40'2*! '%' ("+ ;-0 ;&"@ 1&0 +"" 07-%#" 40" ! /" .-*&"(%" %"+4#%" (1"/$*/2" *! (1#-#." (*! (("(40(U#0/(! /' %' "+ ;&"+"/%#" %"' "9' ee" ' H ' ' %' -' 4' M #0/(4*!DY NN 0" ":%"/(-*/' ' 2" (+*%(-& (1"/@ $*/20' #0/((*/' &-%' "% /"%0'#07!#" " (' "/#*' +-' -' ; * ' C ' ' + ' (9N -7' "(9*! ' (' /0*-(

+23' 55428' 8&25 :5.25323' 82' <2B42538 58' B23:9B' 4 58' & G3 ; 2' 428' 32 ; <80' ' A 5' NN F 4543B2B' :B3' E 53' >2' ; &25 :5? ' 4 58' 9528' :GB2' :B430' :9' @& <2B* ?983:93' ' .:9< 95' E 2 + B4' ?9' 325 3 95' + EB2' 4 588' ; 50' % ' 9# ' 5' 2' +8 4& +R882' 8&4= :5.2' 4 58' .283454GB28' = :BB G+280' ' 3G' AE ' :5' 4<:9A' 8&25* :5@' 4 58' 95' 4482B3' 8 9E J20' ' 2 ' E' >& ' .:9B9' ; &25 :522B' 4 58' 95' G: 8' 3454GB29A0' 77DA ' > " * ' ' . ' 28' 98828' B2 ; <+ 8* 8 253' 25' ; 882' .2' .=2 ; 5' .B29A? 2 M:58' 23' 828' B 58 8' 8&R' 25 :5.253' 3432' G 8842? +28' 98828' B: ; K <98' 8:53' B25E2B848' ' ' ' . " A0' ' . JB:542' +2' +29E2' 9A' E J928' 4.9 ; 5328' ' 82B<2532' 23' 8&25 :5.2' 25' 95' +: 53 5' :G8.9B0' 204' 'Q' ' J' :98' +2M' E:98' 25 :5.2B' 4 58' 4&43B 5J28' 4< 5280' ' -' ' #* "' 0' ' 2332' < B 32' =:5* 543234' H8 E: B*E EB2' 42' ; 542' ?9:5' 82' .: ; ; 95 ?92' ' + ' E 2' H 9' ; :5420' 23' ; ; 2' ?9&:5' 8&R' 25 :5.2B' ! 60 >,/ '" ' 3' 30' <' ' :9B' ; 2' <+ 5* 4B2' ' E:8' < 248' 23' ; &25 :5.2B' 4 58' E:3B2' 3B 8328820' ' 3G' :58' +28' @:9B8' +8' 8&25 :5. 253' 42' <+98' 25' <+98' 4 58' +2' .B ; 20' ' 90' 3' +8' 5&:53 3' ?92' 8&25 :5.2B' 42' <+98' 25' <+98' 4 58' & J5:B 5.20' 1' 50' 3: ' :9884' < B' 22332' E29J+2' ; <B288 :5' ?9' +2' 4: ; 5 30' &=: ; ; 2' 8&25 :5 3 4 58' & 4:+ 3B 20' 8 58' ?92' B 25' < 3' +2' B2325 B0' ' 3G' 90' ' +98' +8' 8253253' 23' <+98' +8 8:9 B2530' <+98' +8' 8&25 :5.253' 4 580+ ' E 2' 23' <+98' +8 8:53' ; +=29B29A0' @ ' @ ' ' 50' 3' RF &4.B:9+2B' 253' :3: ; G 53' 4 58' +2' :54' 2' <+ 5.=2B' 8&25 :5. ' NN Md B482532B' 95' 25 :5.2 ; 2530' 95' B2K 3B 3' 2332' .:53B42' :..9<2' .253' ?9 3B2*E 5J38' + 2928' 42' 24328' 23' 8&25 :5.2' 4 58' & 534B 29B' 428' 32BB28' @98* ?9& ' 428' ; :53 J528 :B3' = 93280' <+98' :9' ; : 58' 4+: * J5428' 42' & .4 50' ' 0' ' " ' E 0 ' B2' 4 58' 95' :54' 5' @ B4 5' :B3' 4+2E4' 4 58' +2* ?92+' + ' ; 8:5' 8&25 :5? 3' 89B' +2' 42BB 4B20' @' ' ' L' AF & 4:552B' 253 4B2 ; 25@ 0 8& G8:BG2B' 4 58' &25 :5.2B' 4 58' 42' <B: :5428' B E2B 28' +' 8&25K :5. ' 4 58' + ' <+98' G83B 32' 5 +R820' % ' < 23 :9EB J2' 283 89 8 53' <:9B' .29A' ?9 0' .: ; ; 2' E:98' 23' ; : 0' 52' 82' 8:9. 253' < 8' 42' 8&25 :5.2B' 4 58' 5:8' 53 ?9 3480' ' #, '$ ' ,' " ' LL BF :< 4 * B2 ; 253' ' 2' B9 52B' 8: * ; N ; 20' 82' B9 52B' &95' 93B2' + 8&283 25 :524' +9 * ; ; 2' + 8' .=2B2G 253' ; 9392+2* ; 253' ' 8&25 :5.2B -' # ' AE 0 8' 5 :5.2B' +2' G 33 ++:5' 428' 2552* ; 80# ' 0 NN 88 82' + 825283B2' 83' + ' ; 2+ 5* .=:+ 2' 9' 8:9B. +' 25 :5840' ' ' ' C 0' / ' :9E253' 42' .253' .=2E 9A0' + 5&R' 25' 9B ' < 8' (5J3 23' . 5?' ?9' 25' 25 :5.2530' ' ' + E 3' 952' 4 A 52' 42' .: ; < J5:58428<+98' 4232B ; 52M' ?9' 25 :5?: 253+2' .= <2' 9' 82+:5' +29B' .:939 ; 2' :B4 5 B2' ?9 54' :5' +28' B2J B4: 3' 25' .20' ? ' 320' A' ' J+ .2' .B2E ' 23' 25 :5' ' <+98' 42' 3 ' =: ; ; 280' ' Q:8 -' (! ' <-' ' ' ! -(# ' Q 5* :5*829B/0' 8' 2+9' ?9' 25K :5.2' ' J' 23' ; + 4B2 ; 253' 5' 25 :5.29B' 42' <:B328' :9E2B3280' 95' 5 B:5' ?9' 82' E 532' 42' GB K E2B' :9' 4& E: B' 89B ; : ; 4' 428' :G83 .+280' 428' <4B +8 ; * J 5 B280' :9' 4& E: B' 8449 3952' 2 ; ; 2' 44@' 8249 32 ' > * $ + ' Q 5* :5*8: B/0' ' 93 + E2.' +2* Q 2' :5' 25 :5.2' 95' :G@23' 4 58' 95' 93B2' LL ! 882' <:9B' :9+2B' +28' <2 9A $ ' Q 5* :5*89*B&/0' ' [' ++0 B29A' ?9' 82' 3' < B' 25 :5.2 ; 253' ' R' ' <+98' 29B8' 25 :5.9B28' 4 58' +2' < E4' 42' .2332' B92' 2' E 2 + B4' .:9.= 3 25' 952' 25 :5?9B2' 49' B:.=2B0' 8 58' 93B2' 3 < 8' 42' < 24' ?9&95' <29' 42' ; :98820' ' % ' O 4*A ' 0' <' Q ' 0 882 ; G+ J2' 428' < .28' 49' :54' 4&95' 93 +20' 4&95' + 3' 0 2B ; 2' 4& 5 3: ; 2' 5. 25' 5: ; ' 42' & B* 3 .9+ 3 :5' 4 32' B =B:4 2' LL 2B ; 2' 42' .= B9BJ 2' 5K . 25' 5: ; ' 42' & 882 ; 253' 428' B J ; 2538' 49' .B 52' 25' . 842' B .39B2 -' (' G/ H 8' 5 :5.29B2' :9 B3=B:4 20' +' A1' " ' 5' .2428' ; 28 ; 2' H8. 25.28' ?9' 8:53' 93 +280' + R' ' 428' 283254928' 23' 25 :5.29B28' 3B 8' 593 +28' ?92' 5:98' 2B 958' ; 29+A' 42' + 882B' + 0' ' U3 ' > * j' ' Q 5* :5*4B /0 / ' ; ; <B20' GB K 82B' ! :3E 2+' 23' ?9' 3 3 4 58' +2' .3 :55 B2' 42' & . 4 ; 2' 42' QN7N' LL &25 :54B2B' 82' 4 3' 25. :B2' 25' :BB 52' <:9B' 8&2 :54B2B -' (' !J ' ' .=:82' E ' ; 9E 82 ; 2530' 5:8* 3B2' G 32 925 :54B20' 0 * ' 3' 0' 0' FC' 4:5.' E 53' 95' J B425' 42' & :83' 23' 8&25' E ' 25 :54B2B' 8:5' .=2K E +0' 23' +9R' 83 +28' G:R 9+A' .=2: B' ' 32BB20' 1' ' O 1' 8' ! 83B28' 28+: J52M' 49' .=2 ; 5' 42' + E2B 3 0' 23' <B242.28829B8' 25 :54B2M' 25' & GR ; 2' 4& J5:B 5.20' # ' 32' ' 0 , + , ' 5' Q0' 23[:540 E2.' 3 ; 2' B <253= 3 ?92 3' 0' ' Q 5* :5*3 5*@ 0' @ 2/0' 6 B ' 4&952' :53 5J2' 2' E: + ' 8W2M G 25' 25 :53 5*

J 20' ' .2' ?9& +' ; 2' 82 ; G+20' ' ! ' W8*' ' 8.' " ' > ' + 0' 23 +0' ' Q 5B :B*8 0' 8 2/0' <:B30' " ' 4&25* :B. B' 2325 5325 :B.' JB .2' ' 95' G:5' B J ; 2 ' Q 5* :B*8 B/' LL 0' ' 2 4B2' <+93' :B30' <+98' B 8 83 53' ' G:552' 5:9BB 39B2' ' 25 :B.' .2' .=2E +' 5 :B. B' 95' ; 9B' LL 0' ' 2E25 B<+98' :B30' 2B533B2' 2 .=2E +' 25 :B. 3' 3:98' +28' @:9B8 ' 5' +2' 4 3' 988' ' <:<9+ B2 ; 2530' 25' < B+ 53' 428' <2B8:5520' <:98' 42E25 B' <+98' JB 80' <+98' JB:8' 2332' 2 ; ; 2' 25 :B. 3' LL 0' &25 :B. B0' / ' 2E25 B' <+98' :B3' + 8&25 :B. B ' O 1' (' */% 2* + + "/20' &-' #! "&(U&" #" !-&J ' 25 :B. 2B' Q.B:+3B2/' ' ' < ' 77' 2' >: B: 42' B 8' H +81' B253' +29B' @983 . 2B' :9B' ; 5325 B' + ' J92BBB2' :3' <:B' 29A' 25 :B. 2B0' # 7 ' " ' 3' <:B' .29' 283' 4 J92' .=:82' \2' +' ; + 428' 8&25 :B83' ' ; :258' 42' +2E2 B' +2' .= 2 0' ! ' cJF ' LLA 6 8' ' ; + 4 2' +' 25 :B8 ' 8' 49B2 ; 253' ?9& + 838 ' 42E 82' H3283 ; 2531' 9 OO ' 3' 3 53 .B93' + ' 25 58' 23' 25 5B.= ' ?9& + 8:3' G 25' 4 28' 8:5' ; ' 25' + ' <+98' JB 53' <B 2882' 4:9' 3:9B5: 2* ; 2530' ' ' ' ' F" ' 832+ 50' 23' <B 5.20' 23' # ; B. 8' H ; B?9 810' 3' +' G B:5' <+98' 25 :B. 80' ' < ' RDA ' 4 58' LLAE6 8' 3 2 ; * ; 25: 3' 3:98' .29A' ?9' 82' <:9E: 253' 42B' E2.' +9' <:9B' 25 :B3 2B' 8:5:830' ' ' Q% ' < B' +2. : ; * ; 542 ; 253' 4& ; :9B8' 3' 42' + ' <+98' G2+2' 42' B 5.20' >&25 :B. 8' ; :5' .= 832+' 3:98@ :9B80' <<2+ ' @:R2982' <+ ' 8 5.20' 7 / ' - ; ' ') ' B?9:R' 2983' G 25' 25* :B.R' 8:5' B:R 9+ ; 20' ' $ ' J ' LL AE 6 8' ' 283' 8' 2 G+2' H&25 531' ?92' @2' 89 8' ?92 ?92 : 8' =9 3' @:9B8' 8 58' +2' 8253 B0' ; 8' + 28<9 8' ?9 3B2' @:9B8' ' G 25' 25U :B.R' 8:5' G:9J2 ; 2530' = ' .A A' &2 0:B349' 3:3 + ' .58 838' 25' + ' 4 8<:8 3 :5' 23' + 8:5' 428' +28' 23' 428' B25J8' ?9' 8&25 :B. 88253' +28' 958' +28' 9+3B280' ? ' + 3535' Q -' (! ' > ' ' 23' * ' <B:E25. ' 3 + ' 58+& 5. 2552+ 5J920' 25[0:B..B' 3 3<+98' 983 ' +, ' * ' 5:98' 25' E:58' J B4 ' * 5' :B ; 54 2' :5' 4 3' * ' 9' 8258' 5293B2' 9' + 29' 42' * 3' ! ' Q 5* :B* ; /' /' ' 2B ; 8' 42' .= +* <2+ 2B' 23' 42' =:5523' 2B' 5 :B ; 2B' 95' .= <2 90' 95' G:55230' +28' B2 ; <+ B' 4&95' ; :3 +2' 42' G: 8 -' (! ' c5' Q0' 23 +0' ' Q 5* :9* 0' 2/0' < B3 < 8 ' 4&25 :9 B ' 0 ! 825' 32BB2' 4 5895' 3B:9' &95' 3B 8:B2 :9' B2* .2+29B' :4 29A0 - / ' .=' ' @L 6' J' 2' 8:9E25 B' 25 <+ 8&283' B23B:9E ' 3:93' 253 2B0' # A 0 " ' & 3 3 4: ; ; J2' 42' + 882B' 3 53' 42' 3 +2538' 25 :9 8' 4 58' 952' <23 32' E +2? B 8' 42* E 3 25' B2' +2' 3= 3B20' ,7'

' Q 5* :9* B/0' 5' ' LL 6 ! 233B2' 4 58' 95' 3B:9' 25' 32BB2' ' E 3 Q 58' + ' 32BB2' 952' 8: ; ; 2' 25* :9 2' :5' .:29B' E2.? 5& R 53' 4& 93B2' 4 49 3' $92' 4&R' B9 ; 52B' @:9B' 23' 59 30' ' - 1 / ' + 8' E:53' 25 :9 B' +2' 3B 8:B0' ' 3G' A0' %' 5' +29B' .:9<2' +28' ; 580' :5' +29B' GB 82' +28' .9 88280' :5' +28' 25 :9 3' 3:93' E E 538' 4 8' 952' :8820' ' * ' 9* 3 B280' ' 4 ' YRR ' 4 58' 58' +28' 254B: 38' ?9' 8:53' .9+3 E 80' :5' 52' 3B:9E2' <: 53' 42' E EB28' + 28' < R8 58' 25 :9 88253' 4 58' + ' 32BB2' 3:98' +28' JB 58' 23' 3:93' .2' ?9' <293' 8&R' .:582BE2B0' 9 ' B " ' 5 :9 B' 428' <+ 5328' +28' ; 233B2' 25' 32BB2' LL G8:K +9 ; 253' B23 53' 3:93' .=2M +9' H& BJ253' ?9& + E 3 . .= ' 25' 32BB210' B 89+9' 42' @:9 B0' +98510253' 882B0' <+98' 5&25 :9 B0' - 1 ' A0' %' LL 0 B' 2A3258 :50' . .=28' 8:98' 4& 93B28' =:828' +8' E 253' 25 :9 . 2' ; 598.B 3' < B ; ' 42' E 2 ++28' < <2B 8828' LL J' ' 52' 93' < 8' 25 :9 B' +28' 3 +2538' ?92' + ' 5 39B2' 5:98' 4:55 8' $9 54' :5' E: 3' .: ; G 25' +28' ?92B2++28' 8' 8:9K E253' 2A. 3 28' 4 58' +2' 82 5' 49' =B 83 5' 8 ; 2' :93' 25 :9' 42' 3 +2538' 93 +280' - ; ' ! ' 6 ' , ' >,/ ' 3' E0' < ' NQ0' 4 58' LL 23 * B2B' 4 58' 95' + 29' B2. 9+ ' +8' 2 ; <:B3253' 42' .28' :<9* +25328' .:53B 28' 42 ; ; 25828' 4 <:9 +28' ?9& +8' E:53' 25 :9 B' 4 58' +29B8' 5.9+328' 23' ; 8 B G+28' 4 82B380' ' Q 5* :5*4B /0 / ' 0' Q' HLFO' &25 :9 B0' W ' 2' . .=2B' 8:98' 32BB2' 2' B25 B4 ++ ' 8&25 :9 B' 4 58' 8:5' 32BB 2B' LL J' 2' B23 B2B' 4 58' 95' + 29' B2.9+ ' &25K :9 B' 4 58' 952' <B:E 5.2 -' O 1 8' 289B' + ' 32BB2' 52+' <:9B253' ; 8' 325 B' ; +253' HE29 ++2531' : 5:5 8 + + 88253' 25 :4 B # ' & 7 ' .AA' H +81' 5 92B:53' 5:98' 25' 3B28' 42' ; :983 2B80' ' ' 2AAA' 3' H?92I' ; ' .= B' 983' 42+2M' 298' 25 9 2' 1' ..E ' LLA3 6 8' ' H2+21' 82B ' 25 :9 20' :9' 2+2' 2B3' H82B ' 283B 5J+ 20' AE ' 3' ; ; B90' 23' 9' 25 :9 8' B .2 ; 253' ' 53* 25 80') ' < ' <' Q ' :983B:9E ; 28' ?92' +2' B:R' 8:5' .:B8' H42' 8 <2B8:552I' E: 3' 3' 25 :9 B' +28' .:B8' 428' :B28* 3 258' ?92' +28' 8 BB M 58' E: 253' :.. 80' 9' CF0

Y)

S 6 8' 2 E: 3 :5'+28 .:9 B8 E EB2 J '23 +:52 3 ; <8 &25 :253 +28 = B4 8 28 3B28 23 28 .= ; <80'' D 7" '" '@ 'B ' C
-' (! ' 3' - !" # ' 42 - ' R ' 23 !" # ' :9 B
e ! ' Q 5* :9* *82* ; 5/0 .K 3 :5' 4&25 :9 B0 42 . .=28 25' 32BB2' LL .3 :5' 4&25 :9 B0 4&2532BB2B+28 . 4 EB48 428 5 ; 9A ; :B38 :5 G 3398'
' '<- !7 #'
3' 'Q 5* :4* *G29B/0 ' 'LL+0 2+9' ?9 '25 :9 3' &25 :9 8829B 23 8:5' .: ; < B20 ' '
B ' 0 L>6 2B ; 2 42 M::+:J 2' :B5 E9+J B2 Q+28 4 'B25328 28<G.28 49' J25B2 5 .B:<=:B2 Q.:
N:<3NB2" 23 <B 5. < +2 ; 253 49 54.B:<=:B2 :8 8:<29B0 4 3 988'2532BB29B 23 :88:R29.
' ?' <- !7 #
0 'Q 5* :9B*:=4/0 # ' ' 5' .=2E + 25 :9B.=4' 3+ ' = 32 < B 95' J BQ:5' 4& .9B 2
3' # ! ' Q 5* :9B*.=2* ; 5/0 6' ; ' 2B ; 2 4& B.= 32.39B2 ?9 ' 82 4 3 428 <B2 ; 2B28 B2 3: ;G428 428 5J+28 428 E:$328 4& B 320 4:53 +28 E:988: B28 8:53 ' GB 5.=28' LL 2B ; 2 42 .= B<2532'
882 ; G+ J2 42 .=2EB:58 89B 95' 3320 +:B8?92 .28 .=2EB:58 8:53 95 8 '325:58 23 ' ; :B3 828 :9E2B328' ' :B32 4& 882 ; G+ J2 42 ; 259 82B 20 8 58 < 9+2 ; 253 23 4:53+ ' ; :B3 82 23 +2 325:5' :..9<253 3:932 + '+:5J929B 42 + ' < .2' LL 2B ; 2 42 @ B4 5 J2' 8 < .2 42 JB2 2
' Q 5*B :9B*.= /0 5 ' ' LL 6 2 <+ K .2B 89B 95' .=2E + 25' 8 53+ ' :9B.G20 .&283* *4 B2 @ ;G2 42. 0 @ ;G2 42+ ' 2332 2 ; ; 2 25 :9B.=2 95' .=2E + .: ; ; 2 2B 3 95'. E + 2B' L 0 2B.2B E2.' + ' : B.=2
-' (! ' <-' ' 23 !7#(& 3' <B:E25@' - !#(#3' 28< J5' -&!# #3' 3 +' - !# #
3' # ' Q 5* :9B*.= 2/0 "E' ' 2B ; 2 42 E 52B 2' 32 25 :9B.= 20 82 4 342' + ' 3 32 49 .2B 0 ?9 54' +28 4 B48 49 8: ; ; 23 :53+ ' :9B.=2
' '<- !7#(#
'Q 5* :9B*.=9*B&/0 ' LL+ : 53 : ' 95' BGB2 82 G 9B3< 2' &283 :B4 5 B2 ; 253 89B 25 :9B.=9B2 4&95 BGB2 ?92 +28 2.9B29 +8 3 G+ 8 8253 +29B 4: ; . +20 %%' (7# 7 MM]' 2B ; 2 42 .= 882' '3 32 4&95 .2B 0 +:B8?92 &2A3B ; 3 '49 G: 8 8232B ; 52 25 429A<: 5328 ?9 :53 & << B25.2 4&952 :9B.=2' LL F6 ' 5 88 5.2 42 + ' :9B.=2 ?92 2B ; 253 +28 429A . 5:58 4&95'< :3 +:50 4&95 .342 P:5 ' ' 2B ; 2 42 ; 5 J2' '< B3 2 49 .:B<8 ?9 '283 253B2 +28 429A .9 8828' 5' 4 3 ?920 <:9B 82 G 25' 32 5 B ' .=2E +0 ' 93 86R 325 B 88 8 4B: 3 89B &25 :9B.=9B2 23 5:5'89B +28 28828
-'# 'S 6 8' B 53 :B8 H+I' :930 23 :58 GB 80 23 25 :9B2=29B2 + 2H+ BJ210 :90358'<' 0 4 58 .3@ 'A ; 6 8' 2+2 ' 828 GB 28 E + 28 $9&2+2 E: 3 '8:5' .9+ 2B ; 280 +2 ' 3+ BJ2 25 :B.=2$B2 B G 25' ; :83B2B .2+2 5 39B20 . - 'C N3
' '<- !7#" #
' Q 5* :9B*5 *@/0' ' ' .3 :5' . 25 :9B52B
0 ' Q 5* :9B*5 0 5 2/0 @A3B3' "' 3L 6 ! 8 4 58 +2 :9B' 28 < 58 25 :9B5 8' LL 0 J' 5J J ' 5 E 3 BB + ' +28 <B 5.28 9 ; :9+ 5 42 :R25J=2 ; * <2+0 <:9B E: B .2<254 53 <+98 .+ B ' .2 .: ; G 3 8' G M BB2 23 8' 4 8 E 53 J2982 ; 253 25 :9B5 0 ! ' 32' $9'<:9E 3 B <:54B2 ?92 <2B4 '3B:< 25 :9B5 ' E2.' +9 ' H +G2B:5 I' 5&25' 3 3' + ' 49<2^ ' "CF0 CN
j' 'Q 5* :9B*5 2/0 8' ' .3 :5' :9' ; :K ; 253 42 ; 233B2 9 :9B +2 < 5' :9' + ' < 3 882B 2
3' ! ' Q 5* :9B*52* ; 5'/0' ' '
0 .3 :5' 42 ; 233B2 +28 < 58 9 :9B' LL 6 9 32 428 :< B 3 :58 4&952 E2BB2B 20 42<9 8 + ' :532 @98 ?9& ' & 5 J2
' '<- !7#- #
' Q 5* :9B*5 /0 5 ' ' LL 6 !233B2 4 5895' :9B' 5 :9B52B 49 < 50 42 + ' < 3 882K B 2' ' !233B2 4 58 95' .B29823 +28 ; 3 B28 49 E2BB2' LL G8:+9 ; 253' :9B G 25' B2 49 < 50 + 93 G 25 25 :9B52B0 7 ' @ ' 28 J258 25 :9B52530 & 93B28 4 :9B52530 9AGB:.=28 3:9B 5253 2 90 G:29 '23 ; :93:5'0 '1!(/- ' ' 6 J '23 ; + B2 ; 253' 25 25 :9B52B0 ; +25 :9 ; 2B0 .: ; ; 25.2B 952 .=:82 4&952 ; 5 B2 =29 B2982 9 ; + 4B: 32 E2.' 95' 32+ J 5 B + H?92 29 ++ 42I' ?9 ' E 3 ; + 25 :9B5 0 ?9' ; 5?9 3 42 .2?92 9G 5 E 3 .B9 5 .288 B20 .2 5& 3 3 < 8 42Q@9: '<B254B2 9B 50 (@(+ ' N 0 + ' LL ~ &25 :9B52B0 2' B4[+' &25J J2B 4 58 95+ 29' 4&:9' &:5' 52 <253 ?92 4 . +2 ; 253 8:B3 B0 230 < B 2A3258 :50 8&25J J2B 4 58 ?92+?92 B2 4 . +2' & 3 53 25 :9 ; '4 58 95' .=2 ; 5' .B29A0 6 'H# ' _ N0 + 5J20 ?9 '5& 5 32 < 8 +2 + 5J20 8:98 +2?92+ +2

E253 8&25 :9 ; 2B 3 593 +2 ; 253 <:9B +2 8 < B2B' 49 .:B<80 0 @7 ! -' " ' "CNC0 1<75# ' 3' A E0 <' C70 4 58 ' 49 3 '8:5' JB2.0 9 39B.0 ' + ' + 5J92 B 5?92 <:9B 3:932 B288:9B.2 ' 4 58 +2 < R8 : ' + 8& 3 3 25 :9B5 0 ' ' :988' 1! - '
BE' ' 6 S' &25 :9 ; 2B0 9 4 G930 25' .: ; ; 25? 53 952 B2' LL B:E2BG2'S ; + 25 :9B52B :5' 3 +2 ' < 58 .:B5980 .&283* *4 B20 8 ' &:5' 52 .: ; ; 25.2 < 8 G 25' 952 B2 23 ?9&:5' 52 + ' <B2552 < 8 4& G:B4' 49 G:5' G 980 :5' + ' ; 5?92
-'# 0 A ; 6' 8' 5M ?9& + H+2 < 5I' 8: 3 .9 8 23 25 :B52M0 ' '56 C F0 B' "C%0 4 58 :
' 'O I' 8' 5' 4 3 8:9E253 ?9& ' &25 :9B52B :53 +' :9B5 2B +28 < 58 .:B5980 * ' 4 58 A -)' / # ' 3' 0 <' N' LLAE 6 8' 25 53 <B 8 '8&25 :9B 52B 4 58 +28 B ; 28 3:98@:9B8 8 ' .:54 3 :5' +9' < B: 83 3B:< G 8820 23 E 'E 8 53 <B 8 & 5.2B3 5'
')' ' 5:98 .:532532B:98 42 4 B2 49 9<= 5 0 E 53 5:98 R' 25 :9B52B0 ?92 ' 5& D ' 50 " ' ! ' & 9 ; ++2 25 :9 ; ' H25 + I' .2 4283B: .30 ?9 ' B2<B28253: 3 +2 .=2 ; 5' 42 = ; G2BBR 9 ! :53.25R80 1' 9 ' 2' 3:93 .32 + ' 5' 89 3 +2 .: ; ; 25.2 ; 253 + 93 G 25' 25 :9B52B ' . B 32+2 ?9&283 &253B 20 :+:53 2B8 32+2 5' 8&283 3: 8@:9B8 B25.:53B 20 ' NNC
' 5' "0 23 !7#' .B+3 93B2 : 8 !#-3' <B: E25?' 25 : ; :B 28< J5' -&! #3' 3 + ' - ! #
3' ' Q 5* :9B*529B/0 ' ' 9EB B Q< ' ; 23 +2 < 5' 9 :9B' LL 2+9 '?9 ' BB 5J2 +28 GB ?928 4 58 +2 :9B52 9' LL 2+9 '?9 ' 2< :9 ; 2 + ' ; 3 B2 4 58 +28 E2BB2B 28
' Q 5* :9*B /0 W' *#+6' 2B ; 2 42 G 3329B 4&:B' !233B2 +28 G9 ++238 J ' E + 5' 4 58 +28 :9BB2 9A I2 2B ; 2 42 82++2B 20 :9BB2B & 53 B 29B 428 .:++ 2B8
- (! ' <- ' !7## # <- !7## #' › '4 3 988' <:9B 4:552B 49 :9BB J2 'AE 6 8' 58 0 429A : 8 +2 @:9B0 42 8:5' 3<:9<2 9 8: J529820 & &2: :9BB2 2+2 ; 28 ; 2 23 5& a3 <: 53 < B2882 20 0 #' " ' (& '<' M
' N ' Q 5* B 5*@ /0 E ' V3' B5 B 42 B 5J28
-' (! ' 5' "0 23 # -/
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' '<-' "0 / # #
3' ('Q =*3B * 9*B'0 ' ' B2 ; B2 <:BK 3 :5' 42+ 52 <B < B 2 E2.' 428. BQ+28 529E28
3' ' Q 5* B *J5293/0 ' ' 2+9 '?9 ' 25 B2 53
-'# 'S 6 8' 5 B J529B8 428 :B4:55 5.28 23 83 3938 B:R 9+A0 #" '" '#! '" ' #' 3' +0' <' %C
' ' 3 B2 54B2
' Q 5* B 5*4B6/0 @2= B2 580 39' 25 B2 580 + 25 B2 530 5:98 25 B2 J5:980 E:98 25 B2 J<2M0 +8 25 B2 J5253 @&25 B2 J5 80 5:98 25 B2 J5 :?80 E:9825 B2 J5 2M @&25 B2 J5 8 @&25 B2 54B P 25 B2 580 25 B2 J5:98 ?92 @&25 B2 J520 ?92 5:98 29 B2 J5 :580 ?92 E:98 25 B2 J5 2M ?92 @&253B2 J5 882 25 B2 J5 53 25 B2 530 5 ' : ; <B20 25< B + 53 42 .2 ?9 '25J J20 + 20 :G+ J20 5 B2 54B2 +28 +: 80 ' " ' ++5&283 B 2542 8 '8 53 ?9&2+2 52 8 2 25 B2 54B20 ' '(! ' +0 "' $9 54' :5.B 53 4&23B2 5@98320 :5' 3:9@:9B8 .B +5 +B20 3 ?9 E293 3:93 <:9E: B Q+: 3 :82B 3:93 25 B2 54B20 '0!
' '" 9 3 ?920 8' ; :5' +825 B2 J5 3 ; '42 25820 !:5 8 5J0 ; :5' <B:<B2 8 5J 25' + E2B 3 3&: 25820
% ' ?- / ' E0 "' '?92+?92 3B ; 'B28829B 2 + B2 53 .2332 <BG ; 28820 $9& + <B:9E20 JB 54' 290 3 ' 9B29B E25J2B28820 ' ? & ! ' E0 ' + R' E '42 + ' E 2 '?9 ' &" H & BB 3I' E29325 B2 54B20 9 ' , -(# 0 "' 2 B: '4& 5J+232BB20 B2E 39 < B +28 +: 8 4&952 8' JB 54 <9 88 5.2 <:9B +28 <B:3 J2B0 5&25 ' <: 53 <:9B +28 25 B2 54B20 ' '+ # ' " ' ' !-)' /- ' 7' ' &25 B2 54B20 5' # ' 3B2 25 B2 53' 28 +: 8 42 + ' 5 39B2 52 8&25 B2 J5253 < 8 ; <95 ; 253
-'# 'S 6 8' '?9 '25 B 53+ ' < +8+2 B2 '+! ' "H7 ' " ' S 6 8' F&2+2 8:5 E:' HEQ89I' 525' 25 B J52 30 $92 2+2 25 B 54B2 52 42EB2 30 ' R #/ ' C # ' <' %' 9B .2 E:+3 :B E2 B HL 'E293 ; 532 5 53 E: B0 :G325 BI' ?92 B 25' 5&25 82 325 B2 30 ,&'
' # ' C LLA 6 8' = 4B28 + ' .B28 ' E: 3 3B E28 ' &2 ; <2B2:9B #25B 0 23 52 + ' E: 3 ; 2 G 25' 32K 59280 58 +28 E: 3 25 B 53280 6 ' 3 .= 8.958 G B:580 23 93B2 ?9 ' :53 @983 .28 25' +:B 32BB280 :53 +28 ; 25428 42 +:B 8: J 8 H89@2380 ?9 ' 29 B J5253 +28 283 G+ 882 ; 25880 82+:5.' +2 H+ I' 3 9A 3 :5' 49 B: 0 ' " ' LLAE 6 8' 9A 283 380 42 :9BJ:J52 :5' E: 3 :B4:55 4025 B2 54B2 &24 .30
' D ' ' & 93=:B3 '42 + ' +:R' 5&283 25' B 25 25 B2 532 H GB:J 2I0 ?92 5:98 52 + ' 42E :98 3:98@:9B8 B2.2E: B 25' ; 28 ; 2 =:5529B 23 B2E2B25.20 ' [3X ++' NF

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$ 0 ' Q 5* B:*\ 0 \ 2/0 # ' ' $9' <:B32 95' B:.' /L 9G83 53 E2 ; 253' +8 52 80 3325 4 253 J9 B2 'B25.:53B2B .28 25 B:?9 8 H+28 ; :528 42 254 53 B J:8820 +:B8 49 J2 25' "F F@ ' .=2K E + .: ; ; 2 428 4B J:58 42 29 89B +28 <:93B28 2 ; GB 8 28 428 4 .28 42 B J:8820
C ! # ' 3' E0 <' "
$ ' Q 5* B:*\ /0 W : ' L 0 2B ; 2 424 5 JB2 ; 253' !233B2 +2 B: .0 B2 ; : 5 '' ++8 :53 25 B:?9 D.2 @2 52 =: ; ; 2 ' NN I &25 B:?92B0 5 ' # ' 2 B2 ; : 52' 2 .= JB 5' +2 8 8 3 + 8&25 B:?9
-' ' AE 6 F' 28 B2J528 4&95' = +42B :' &25 B:?9 0 :9 8 +2 52 530 = B+28 +2 8 ; <+2 '
' C '3' && '4' YM' e 8' ' 9BE 253 95' ?9 4 ;' 25 B:?9 0 R 53 + ' .= BJ2 4&2832 54B2 +28 .= 542+28 23 42 .= 882B +28 .= 258 =:B8 &2J+ 820 <9 + 0 1! - ' '><7 # ' .G 'AA
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0 ' Q 5* 9 0 9 2/0 # ' ' 4&25 9 B' ' GB9 ; 2 25 9 20 E' ' " ' E0 " ' <+98 29B8 @9J28 H 9A 3 38* 5 8I' 82 4 .+ B 253 5. : ; <232538 ?9 54' +28 ; +3B28 E25 253 .+ ; 28 +29B8 28 + E28 25 9 80 ' ' * 5 ' " ' 7B) C! -" ' "% ; B8 "FN 0 <' F ' h' D 2 < B3 . <20 ' 1 %0% 8:+ 0 5&283 < 8 4 58 & . 4 ; 2' ! 8 :5' <253 +2 B <<2+2B ' . 3 ' "> B # ' 42 # '23 42 ?92+?928 93B28
' D IE Q 5* 9 B/0@2 ; &25 9 80 5:98 5:98 25 9R:580 E:98 E:98 25 9R2M0 +8 8&25 9 253 @2 ; &25 9R 80 5:98 5:98 25 9R :580 E:98 E:98 25 9R 2M @2 ; &25 9 80 5:98 5:98 25 93 ; 28 @2 ; &25 9 B P @2 B:&25 9 B 8 25 9 8*3: P ?92 @2 ; &25 9 20 ?92 5:98 5:98 25 9R :580 ?92 E:98 E:98 25 9R 2M ?92 @2 ; &25 9 882 8&25 9R 53 25 9 0 5' # ' LL 0 2 B23 B2B 25' 3:932 = 320 25' <B25 53 + ' 9 32' &25 9 B 9 : : ; 253 49 4 5J2B' &25 9 B 42 <B 8:5' D2830 ; 2 4 3* 0 5:3B2 JB 54' 23 5. : ; < B G+2 ! :+ 5 0 ?9 0 < B8 ' <B9425.2 5 ; 3 G+20 & 283 ; 2 H9528: ; ; 2 :+ 2I ' 8 A :9' 82<3 49. 380 <:9B +28?92+8 + 889B2 ?9& + 283 <2B ; 8 42 392B0 25. :B2 ?92 .2+9 '?9 ' +28 2 ; <:B32 8&25 9 20 ' 0#!5 ' C' ' 3N3 ?9&2+2 ; 2 E: 30 2+2 8&25 9 3 42 ; :0 ' D #/ # ' 0 " ' 6
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^ ' 7 'BB ' " ' 38:5' ; 2 25' .:9BB:9A 8&25K 9 3 4 58 +28 25 2B80 " ' ,& ' 0 ' @& ' E9 428 . 3:R258 8&25 9 B E22 = :BB29B0 ' " ' 1 '
" ' 3 ?9 54' + '59 3B2E 25325.23 B29A.= 32 90 2 <= B2 <+:B 2 :5' B2E:+3 &: ; GB2 2BB 532 +2 3 25 9 4 58828 ; 58 952 3 32 8 5J 532' '<B2882 89B 8:5' 82 50 23 &2 ; GB 882 23 8&25 9 30 K 5 'E' 5 ; +3B2 :9 ?9 0 4 3* :5' 3 @ 4 8 ; 532 B24 520 28 +:J28 42 B253:5' &283 25 9' 93B2 82 ; 920)) ' 7/ ' " ' 1& # ' LL E2.' 2+ <82 49 <B:5: ; ' <2B8:552+' : ; <253 & E2M*E:98 + 88 '25 9 B^ LL B 2A3258 :5' 28 B E J28 8&25 9R 253 +: 5 42 5:98') ' , ' 'F I' & E 5:9 B0 4 8< B +3B2' 2 32 ; <8 8&25 9 3' :9B 3:932 B2. : ; <2582 + 5&:G3 253 ?9&95 E 50GB9 30 $9&45 3B : ; <=2 B E:+20 95' .+ 3 ?9 ' 8&25 9 30 ! $ ' D#7 7 ' 0' " ' ' .:9<2 42 ; 28 @:9B8 8&283 GB 8 2 25. :B <+2 52 ! ' E 2 25' +:5J8 8:9 < B8 8&25 9 3 ' .= < 2 G +2 52 ' .2+2 ?9 ' 8&25 9 30 8&25 9 30 ' <B82 GB; 28 52 <29E253 BB 32B0 ' C " ' 90 N' $9&283*.2 4:52 Q< 2 428 @:9B8 <:9B E +: B ?9&:5' +28 <+29B2^ 5' 8:+2 +0 95 8:+2 +0 952 =29B2 23 <9 8 952 =29B2 2+2 ?9 ' E 253 B2882 ; G+2 ' .2+2 ?9 ' 8&25 9 30 " + F6 & .= <<2B 4&95' E 820 25' < B+ 53 4&952 + K ?929B' :3B2 35 8&25 9 3' 2 + 3 8&25 9 B 'G 25343' @/ B ; 3:5R ; 20 5' 4 3 ?9&95 E 82 8&25 9 30 +:B8 ?9& + + 882 .= <<2B ' + ' + ?929B ?9& + ' .:53 253' 2 3:552 9 8&25 9 3' 9@:9B4&=9' :5' 82 82B3 <+98 :B4 5 B2 ; 253 42 9 B' LL J' 2 5&283 < 8 < B + ' ?92 +2 <:3 8&25 9 30 .2 5&283 < 8 < B + ' ?92 & B2 <253 ; 5?92B
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3 25.2' ! 8 '+2 .:54 ; 52B 39' ; 8 3B:< 25J J 0
' =24' 'Y' 5J J28*+2' 583 53 .=2 .=2B'
4 58 !R. 52 95 3B 52 ?9' 33254 9 '0 "
'Y' ' 5 4 3 988' ?92+?92 : 8 25J J2B 42' 2 <29
4 8 5.2 42 ; :5 JB 54*< B2 25J J2 '42 89 EB2 +'
; :42 49 32 ; <8 2342' ; 233B2 828 429A' +5 8 < J28 42
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B3 .+28 +28 <+98 ; <:B3 538 E2.'+28 .= 5J2 ; 2 38
?92 425:9E2+28 583B9.3 :58 ; 25J J253 4R' B20
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J J22 ' ' & ' -'"' E:B 82M+28 8: 58
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?9' 3 3:930 +28 <:9BB 3 25J3'2B S'E:98 4:552B
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4 52B' L] 25J J2B0 / ' B2 ; 8 25 J J2'
28 :G@238 ?9' 825J J253 2+2 ; 253' H :53B .32B
95 2 ; <B9530 95 25J J2 ; 253' ' 8283 294233 0 23
+ 825J J2 3:98 +28@:9B8 42 <+98 25 <+98' L 2 B2
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< 8 +'E: 2 42 30 ! Y 'C70 7' L G8:+9 ; 253'
>2 E 8 +'E: B0 JB B0 +'89 EB2 230 8 +82 <2530
!25J J2B 8:98 8:9'5: ; '<+98 +: 5 ?942+2 52 E2930
'cB3Q' ' ' 25J J2B '?92+?9 950 8 :G+ J2B
25E2B8 +9 ' ! 8 ?9' 25J J2 '429A' 4 J J2 95
23 93B20 ' & ' 9 0 2' $9' 825J J2
9A' B: 8 2 3 42+29 8 42882 58 4 5E :+ G+28 +: 80
' ' ; 0' 'S' <2 52 9 +8 4 J 2 :98 +28
+:38 42 =R ; 25 @2' ; 3 8 25J J 20 ' 0
'Y' F '"/#'" !/'"/707"+"/%'"/%'"" #0/((*/'"
2*/#-%-*/'*-& */'"(%%"/!#" '*(%"' 1"/707" #0/(
&" (" .-2" +-&-%0-"' ' 1"(% "/707 '#0/(10"%-&&"'-2'
"% 02%"!" (1"/707"'0 ' 4 '0'NN 1"/707""#0/(
&"("*"#"'((" $0-'" 4' %"' NN ;(*&!+"/%' 1"/70@
7"' '("$0-'" (*#%0((,!!-& 0!'0 #-:@("4%0/('-&
(1"/707"'0' % 0."2 "&&-4("#!' 4"/*+' 4"'(*//"(
(*/'4 '" 0 $0-% "/707"' NN 0"":%"/(-*/' 0/(&"
40'%-" #"('*-(4"/("c@.*!(,!!-& (1"/707"A 9
' /B'/-' ' NJ MF 10.0/2"' 4 / %"0.0/%' 1"/K
707"" #0/(!/' # $-& ' #0/(!/' +0!.0-(40(' D "(%
2" ,!" #"+0/#0-%&" '*-' ,!- ":4"(0.0-% 4'-(&0
$!-%"' 0$-/' #"&!-#*/ /"" &-"!' #" (1"/707" #0/(-/@
% -"!" #!' 408(' ' >,/ ' %' /
4' Y)' #0/(' !" &"(40(#"(%8'0/(."!:@
%! ,!"9" + "/707" A' ' E0 " NN MF %'"
2*++"/2 ' "/' 40'&0/% #!!/' 2*+ ;0%' #!!/" #-(2!(K
(-*/' #!!/' #!!" 0$$0-"' 0 ,!""&&" (1"/707"0 40" !/'
-/2-#"/%% $*'%!-%' ' $0!#'0 ,!" &0 #-(2!((-*/' (1"/@
707"% % *!' %0'#' S" #-(4*(" 0%%0,!" %" 2*+;0%
(1"/707"' #" 9. NN AF "+"#" +"%
#"2-/"' ."/-" +0&0#" "/'40'&0/%#"("*70/(' 0
4*-%-/"(' "/707" @)' 0* % MBM $"' (1 ."-&&0/%2" +0K
%-/ ' M 6" !"(' -& U?*/(-"!'$"" #' *!-(0 J0
("/% ,!" (0 % %"(1"/707"0-% "% /10 4! #-' 0!%'
26*("' (-/*/ 06' +0 % %"' 06' +0 % %"5 %*!(&"(
+ #"(,!*/' 0 $0-%(#"4!-(*/% %'-/!-&"(!
' ') ' BF "+"#" +0'-/"' 1"/707""
(*!(.*-&"' (#-% #!!/' ; %-+"/%'&*(!!-& "(% 4'-(
%'*!%' 2*!4' "/%'0."'(40" !/' 2*!4 #" "/% .-"&'/%
,!-&" $*-%$"'%"+"!%-/2&-/"'%NN)F /%'"" #0/(,!"&K
,!" ("/%-+"/%' #0/(,!"&,!" (-%0-%*/ +*"0&"'0@
.*!(#" #"0 (2*/0/%'"/-0/'%"+"!"/707""40(!:%'*+@
4"!(("!"2"(#!'!"&(' .*(2!0/%"'&" 0440(' /' +1 %0/%
"/707 '/1-+4&*"" 4*-/% 0-#"' 3 *
0-(@%!#0/(,!"&(4 '&(0!9*!'#!6!-'%!%!"%"/@
707"(3 '?" '-' S" +"(!-("/707 %"*4 0.0/%
S" .*-(,!"&0 '0-(*/2 #" '&0 .-"&'/2" U#" &0 40(K
(-*/J' '0 ' ' "&0!+!"' 0.0-%&0
%'0&/' '#0/((0 20!(" (" @ /-"(&0 0.*-"5 *!-(0
7/"' &"(*.-/2"(@ /-"(&0 0.*-"5 *!-(0
(1 %0-%.!%'*4"/707 '4*-P@ ""!&2' 9 '= , 'B$3

"C' # 8 8:98 +' 35 428 8 538 4 58 +2 .B ; 2 +8
825J J253 9 ' ' ' ']% << ?92B ' 25K
J J2B 4 58 428 <B E:R 5.28 ' 4 58 .:98 ; 0
2<9 8 ?9 + 93 2 ; <+:R ' '+ ' ; :55 20 52 825K
J J2 '<+98 4 58 9.952 253B2<B 82 .:58 4 B G+2 42
; 3= ; 3 ?92 5' 42 <= +:8:<= 20 ' ' F
-' !0 5J J2B 89 E' 4 95 5 5 3 <B254'+2<+98
.: ; ; 95 ; 253 +'<B <:8 3 :5 .2<254 53 :5 3B:9 2
.*428898 428 2A2 ; <+28 42' ! :+ B20 42 53* ; :5
23 42 >' >' : 882 90 :='25J J2B 283 .:583B9 3 E2.'
.:583B9.3 :5 ?9' 283 B B2 8 58 4:9320 ; 8 ?9'
5 'B 25 42 93 0
'S] 8' 3 @2' 89'8' 8 258 ?9 328 + J2 ; 253
$92 3:93 H2+2I' ; 2 <923 :9 25J J 2B :9 E254B20
1!7 ' 'A 50 80 3 + 42 3 <B 8 @9B2B ?92 + 52
'E25492 52 4:5 20 52 <B283 20 52 25J3 J 20 52
+25 2 25 9.952 ; 5 2B20 < B?92' + 52+ '<9 882
23 42 E2 B2.:9EB2B < B 88 820 ? ' " ' #'+0 M0
3 .2 ; 2 8 ; 2 B283:B 4: 3 + 2B2 .2+ '9'+ ' 9*
3B9'.:M2 E25492 : '25J J 20 ' 111 9' 70 !'
J J2 8:53 39 3 25J J 0 3 42 .= 8 ; :'428 ; 5 J 0
:'"C' o I' 80 3 4 8253 58 0 ?9 8 E:98 2B:53 0
42<254B2 23 25J J2B 3:932 E:3B2 32BB20
0 ""7' S 6 80 +8 :98 4 B:53 ?92 E:83B2 4:9A' ?@3*
J '2 28 .229B8 9 ; 58 + 252 23 25J J20 8 *2 3'
'S' ; 289B2 ?92 @2' ; 25J J2 4 58 + ' ; + 4 20
! ' 0 F" ' : ; ; 253 <29E253* +8 25J J2B +29B :R
89B 952 :R'<:<9+ B2" ' ' " ' 2825J J2B .2+9R
?9' ; 2 4: G30 25 98 53 42 +9R0 :9 ; 25J J2B 25K
E2B8 .2+9R ?9 52 ; 2 4: G3 B 250 .2 ; 283 950 5
0 7F' 5' 56R E: 3 ; :R25' 42 B2 3 B2B E 53 8:5
.= BB :30 5R'+2 B23:9 ; 2B 25 BB 2B20 3 5+ +28 B:928
283: 253 25J J 28 23 2 ; G BB 88 28 253B2 428 ; :5*
.2 9A 42 .:B<8 ; :B380 ' ? B'N
*o # ' 5' "0 23 'G 8+ ' / '<B:E25?'
' , 6 ' 3 +'
N 'Q 5*J *@ *8 /0 ' ' 2+9'?9' :G32*
5 30 ' .2B3 528 .:54 3 :580 > '<:88288 :5 42 ?92+K
?92 < B3 2 49 4: ; 52 B:R +'<:9B 95 .2B3 5 5: ; GB '
4 55 28 29A' 428 25J J 8328 ?9' .?9 28.2B:53
' + ' B242E 5.2 4 32B ; 5 200 82B:53 ; 532598
4 58 + ' @:9 88 5.2 42 +29B 25J J2 ; 253 ' .2332
<:88288 :5 3B 5?9 2 0 42E 254B ' 95 5:9E2+ 25K
.:9B J2 ; 253 ' JB .9+39B20 25 <2B ; 233 53 9A
25J J 8328 42 82 + EB2B E2.'<+98 42 2:5 5.2 ' *
; G:B 3 :5 42 +29B8 4: ; 528 A 50 " '
, ' @ 5E 2B "CF"0 <'"F
' (!' >
3' ! J *! " ' 'Q 5*J= *5 50 5 5* /0 6'
2B ; 2 32.=5 ?92' $9' 25E2+:<<2 .: ; ; 2 2B 3 952
J 352' 29 +2 25J 5 5320 .2+2 4:53 + 'G 82 :B ; 2
52 8:B32 42 J 352' '+ '3 J2' :?9 +28 25J +5 53280
.:?9 +28 ?9' 8:53 :5 ?92 ' 23 8 58 ? B2 <B:<B2*
; 253 4 32
' 3 0 Q 5*J=2*5 0 2/0 " ' " ' ! 8
25 J 352' 28 . 932 9A 25J 35 8' L 2B ; 2 42 G:3 *
5 ?92' J2 25J 35 20 3 J2 25E2+:<< 2 < B +'G 82
428 29 +e' :9 428 < 3 :+28' L 2B ; 2 4:B5E3=:+:J 2
$9' '+2 G22 J B5' 4952 J 352' L 3 392 25J 35 20 0
82 4 3 42 .4+28 ?9' 82 32B ; 5253 5:5 < B 428 ; 2 ; *
GB280 ; 8 < B 952 8:B32 42 J 352' 28 #2B ; 8 8:53
428 83 3928 25J 35 28' L @' ' : ;' 4952 ; +2'
4 .G 88 2B8' 28 25J 35 8
'Q 5*J= *5 /0 E' ' L 0 !233B2 25'
J'52' F' 2B ; 2 42 G:3 5 ?92' 5E2+:<<2B +28 3*
J28 < B'+ 'G 820 25 < B+ 53 428 29 +28' L 25J +*
52B0 5' ' 3B2 25J 35 ' 28 29 +28 ?9' 825J +*
5253 952 4 58 93B2
-' # ' S 6 8' 3 8: 3 H ; G 88 429B 42
= B+28 I'<:B32B 952 28< 2 42E 53G '3:93 25J 5 2
2325 B ; ' 3B 8 B .=2 ; :53 4:B 23 4 BJ2530
0 #0 "
-' ! ' ' "0 23
3' 3 'Q =*J *+ *@/0 8' ' .3 :5 4 25*
J +2B' 5'+28 + 882 3B:<'G:5 + B0 8: 3 4 58 25J +*
+ J20 :9 8: 3 4 58 +2 5: B0 583B' ' ' '
, 'F ; B8 "NC"0 B3' F' :9B B2 95
G:5 5: B 89B 95 .= <2 90 + 283 5 .288 B2 42
25J +2B :B32 ; 253 R2.'G:552 J 4+2 4 +2< '23'+'
325 B :B3 +: J32 ; <8 4 58 25J J20 1' B3' "
' >
3' 7 'Q 5*J *+ /0 :' : 2B ; 2 42 2 539*
B 2B' B2 < 882B .2 ?90:5 E293 32 54B2 N5' 5: B0
4 580 952 4 .:.3 :5 42 J +2' 28 JB 8 5: B80 E9+*
J B2 ; 253 <<2+28 JB 8 ; 5 ; 280 82B 53 25J + 8
.: ; ; 2 +2 5: B0 ' ' , ' : 3 "NN70
' ' B3' N
-'# 9 ' 5' "0 23
3' N ! 'Q 5*J * ; /0 /' ' 2B ; 2 42 < .=2'
E +2B = ; 2?250 25 < B+ 53 49 <: 88:5
-' ; 'SE 6 8' 2 ; 94 88 53 42 8283B2 58'
+ 88 ' 5 392B 23 25J ; 2B 42 8:5':< 5 :50 1'
E90 ""0

Y)R

-'_ (!' '283 <:88 G+2 ?92 .2 ; :3 8: 3+2 ;_;2
? 2 -/ - #' ?9' 8283 4 3 4 58 & 5. 25 B 5? 8
'9B' 3B: ;<2B 28< J5' -/ K # -/ - #3 3+'
-/ -- # 3 .: ;<:83 42 -' '49 G 8+ 3 5 / -*'
- #'82 ; :?92B / --7 ' ; :?92B 2' !:3 4&:B6
J 52 :G8.9B2 2M <B:<:82 +2 J2B; 5 ?92' 5.'='
2; '/ -'@25 B +2B 2 5J :*8 A:50 L ;W5' '
.2332 .:5@2.39B2 283 2A .32 +' :B; 2 -/ #- #82B 3
<+98 <B 8 4:'B.3R; :+:J 2
3' B 'Q :J *5&/ ' ' 2B; 2 42 .: ; ;2B.2'
8< .2 42 8:942
' N 'Q 5*J 5*3 / 5' :' ++ 2B; 2 42
; B 52' <<B:.G2B 4&:52 ; 5 B2 8258 G+2 95 G+3 *
; 253 ?92 &:5 <:9B89 3' :98 &25J 53:58' 2 E 8*
82 9 .B J5 53 4& 3B2 25J 53 ' L F6 J' 23 5 :+:*
J 8; 2 B2.' 95 8258 < @:B 3 ' 5J 532B ?92+?9&95
+2 <B254B2' ; ; 2 95 J 53 +2 B2 8 25' 2@2952
G: ; 2 3 3 3 ; <B 8 '42 +' 42 ; : 82+2 42 .: ; <3: B0'
?9'<254 53 +:5J32; <8 E 3 28<NBN &25J 532B '
' c ' 4 58 +2 ! ' 9 ' Fr &25*
J 532B .' B4@+' :53B .32B 952 + 8:5 3B: 32 B2.'
952 <2B8:552 25 ; 9E 82 < B3' '&283 25J 53'
'.2 < B 8 32 42 .2 + 3329B
-' S(!'c5'3 23 ' ; '3 <=<B2 <B 82 42 & .*
5:5 42 ; 233B2 95 J 53
3' (!+' 'Q 5*J *5*; *4 / /' ' !:3
G9B+28?92 23 3BG8*+ GB2' G982B G:3332982; 253 4&95
@2952 J B?:5' >&25 .:55 8 4& 882M <29 8 J28 :9B
2 J 5R; 42B +29B8 < J28 N ' - '4 58

- S(!' 5'3 23 2 4 &'.= 58:5 42 >9< 32B
3' * 'Q 5*J *B 5/ :42' 2B; 2 42 ; K
B 52' :B32 4&2A4 ; 3 :5 ?9' 82 4 3 <:9B 2A. 32B
'+'<B2. 93 :5 ?9 54 952 .:B42 .= BJ22 4&95 <23
8 53 B42 9 3 <+98 29B8 3:9B8 ' &253:9B 4&95 ; @3
:9 42 ?92+?92 93B2 < .2 42 G: 8 23 ?9&:5 +'B23 253'
-' AR#'> '23
b' !' 'Q 5*J B*4&/ ' ' 2B; 2 B9B +' B*
; 253 42 E J52 ?9&:5 + 882 2A3B ; 2; 253 +:5J
'?1$ 'c5' '23
3' N 'Q 5*J *B&+ ' ' 2B; 2 42 <+:=2'
:5J +23 <+: ; G4 23 3B +54' < B 428 G 32 9A
' Q 5*J *B:*34 342/ 6'
2B; 2 42 434B 5 B2' +2884 9 J 3B:3
-' A(#'> ' ' '
3 !(# Q 5*J *83B * ; *3&/ ' R*
5:5R; 2 42 E253B +:?92
-' (!' ` (W: <3<9F:h 42 E 25 :!BB <
E253B2 23 Q69F:. < B:+2
(# !' 'Q 5*J *F3B *; *3 *8; &/ @'
' R5:5R; 2 42 E253B +:?9 2
' O ?'> 4 '
' 'Q 5*J *E4/ 2' ' :552B 25 < B+ 4'
428 :82 9A ' ; 5J2B 9M <23 38 25 44J:BJ2 53
'+29B G22 L 5JB 882B +'E + +2 2$ +9' 53B:49 8 53
42 :B.2 +' 5:9BB 39B2 4 58 +2 G22' J2:58 25J *
E48' ' 5 4 3 <+93 3 J E2B
-' S(!' 5' " 23 / '
3' I ! 'Q 5*J *M.*52*; 5/ ' '
.3 :5 42 .:9EB B 42 J M:5 42 B2 5 +3B2 49
J M:5
3' I 'Q 5*J *M:*54/ 3/' ' :9EB B 42
J M:5 25 < B+ 53 4&95 32BB 5 :4 &:5 3 5 +3B2
49 J M:5 :9 42 .2+9' ?92 :5 .:9EB2 42 . BB48 42
32BB2 J B? 8 42 J M:5 ?92 :5 '<B 8 +29B8' 2; *
< B38 25J M:5548
-'NS(!' 5' " 23
' Q 5*@4@42/ <:B3' ^'4&25J2B' 2B; 2
; +2B' ; G BB 884' !2 :+'25J4 42 .2 +:9B4 94
+ 'Q 5*@ 5*8&+ ' ' L+` .2 25 < B+ 53
42 .2B3 58 5 ; 9A 4: ; 283 ?928 28 . 528 .28
<:9+28 8:53 4&952 G2+2 25J2 5.2' L J' '<29B +'
3B = 8:5 +2 ; 29B3B2 +'E25J2 5.2 &=:BB G+2 448*
28<< B 23 3:932 .2332 25J2 5.2 2 ; 9A ?9&:5 E:3
B4J52B ' # ' :3'E@'NN I' B 2A3258 :5 + 82
4 3 428 = : ; ; 28' 9 32; <8 ?92+28 G4328 < B+ 253
328 +:5 8 253B2 93B28 E:9+ 253 3 2 4; 8 4 58 5:K
B2 ++ 5.2 :9B79:'5:5 <9 8?92 +29B 25J2 5.2
+ 3 +'543B2 25 .2 32 ; <8*+ ^ ' - 1 ' E0''
38 R <2B4 B253 <29 <9 8?92 B=9; 52 25J2 5.2
5 9B 3 988' G25 .B:?94 8 '3AU552 < B3 5' 1'
S ''' 2@9B '< B +93:5 52 3:932 &25J2 :.2 =9*
; 52 2B 3 G253 3 49 4: ; 52 28 44 348 42 + *
G 8 ; '+G E; 8:'/L 5 ; 9E 82 < B3' =' 8:B32B
<B: ; <32; 253 25J2 5.2 42 E <4B2 '
' '1&# ' E ' ' >2 .B 58 <+98 ?92 +' ' ; :B3 .2332
25J2 5.2 4:+ 3B2 2 +93 58 ; <:B3958 ?9&25J254B2
+2 3=4 3B2 ' # 2 ' --'(G ++ B4 .25*
829B 23 <44 53 :53 25 <+98 JB 54' 5: ; GB2 ?9&:.'
<2582 = .95 428 3B: 8 3 95 <<9<+2 :B3 JB 54
2 B4 329B25 G45 &25J2 5.2 ' ' ' - 1'
' "7' $ 9 54 42 .28 ; 44 8 538 H+28 <:4328 8 3 B?928I
25J2 5.2 3:93 253 4B2 B 3 +'3432 25 G 8 B ; 2B

4 58+ B E 4B8 ' # '53' 23:98.:++ 34B 9A 25*
J2 5.2 2833B:<' ; +J52 7 '2 4J:3:3B2 E F'
'.:5.+93 ?9 39B 2+ E + 42 G:5528 B 8:58 <:9B
443B9 B2 3:932 .2332 25J2 5.2 '' 1 ,*'L'
824 3 < B: 8 ; 4; 2 4&952 829+2 <2B8:552' G+ ; +*
=29B2982 25J2 5.2' < 5 J2 49 4 G 2 &283 3:'
?9' ; & 8@:94 .2 3:9B G: ; 5 G+2 6 7 ' - '
' '
-' !' 5 :BB 52 :582 82B3 3B48*8:9E253 4&25*
*'4 58 +2 8258 % 1 ' >& 9B 8 428 4 *
.9+348 428 <B:248 .2 82B 3 952 G2++2 25J2 5.2
3:932 952 25J2 5.2
-' ; 'S 6 8' & 2.3 :5 ?92 &25J254B 53 <:B32
'8:5 25J2 5.2 6 ' 'N7' 58' .=: 8' .2 G28*
3 + ; 8+2 :9 2; 2++2 5 42 +2 ; 9+3 <+ 2B < B 25*
J2 5:2 G'5 ' ' C7' $9' 428 B2 E: B428 JB 548
; :93:58 23 GB2G 8 5&25 4: 3 3 B2B 25J2 5.2 42 G28*
3 +3B:<'@2952 ' "C' 2 +'42 5.2 E 253 +'4 8K
8 ; 9+ 3 :5 8:5 25J2 5.2 # 0 :J2882 <' "
4 58
-' S(!'>
3' 'Q 5*@ 5*84' 2 .'<B254 952 .4*
4 ++2 42E 53 :'23 :' b5:98 25J2 5.:58/ 5' ' 2B; 2
; +2B' ; G BB 882B 42 ?92+?9&95 .: ; ; 2 4&952
; 9E 82 25J2 5.2' $9' 5:98 ' 25J2 5.28 42 .28
J258*+ ^ ' &2 J2 5.2B 5' # ' 3B2 25J2 524' >2
52 E29A ?9& + 8: + 4 3 4 58 +2' ; :542 ?9 952 + 2 42
+'.:55 88 5.2 42 82332 82 8: + 25J2 5242 4&95
B:G 5 'D - 7" '?# " ' !'
-' # ' S 6 8' ++2 B2<B:49 B' < B <B48 428
: 58 8 A :8 <+98 ?9&2+2 52 8: 3 9< B E 53
; : 255 53 +'.9+39B2 23 8&283B2 25J2 524 42 @29528
23 B 5.=28 82 ; 25.28 :'58 'C '$9 53 9A
93B28 G28328 52 93 ?92 .9+3 E2B +2' 2548 42 +'
E J52 <:9B 25 B: ; < 53 +29B8 5 48 +28 4283:9 ; 2B
42 8&25J2 5.2B 5' "77
' ' '< * -
' 'Q 5*@ *J54/ 5' ' B: ; <2B' 2+
.: ; ; 2 4 3 !2B+ 5 .9 42 H<2582I 25J2 J92B 93B9
$9' 8:9E253 8&25J2 J52 8: *B54 ; 2 >& ' B2JB23 ?92
.2 ; :3 8: 3 3B:< E 29A 9@:9B4&=9 P ' ; & '3:9*
@:9B8 82 ; G+4 4&952 452BJ 2 2A3B4 ; 2 ' ' D '
' "
-' # 'S 6 8' =' 9252 2+ .: ; '5:98 '25*
J2J5+2M+ @!- 5'<'NN' :9.2 ; 253 89+25J J5 2M23
8:9<B 8 H89B<B 8I 1!7('B5-'LA; 6 8' 5 4 3 < 2?'
?92 3298 H32+I .9 42 93B9' 25J 5 2B ?9' 42 .2*
; 2 8; 28 25J 25 :5 4282; 53 283 25J 5 48 6'58
'SS ' 'A (6 8' 5 3 53 .: ; ; 2 E:98 ; 2:3B 2M
< 52 42 25J 5 2B E:83B2 .:5 28829B A - / # ' '
S 6 8' 58' 4E 2 3*'42 <+98 29B8 . B32+8 .*
4253 25J J52B 95J' <3B2 ?9' 8&25J J5293 29A ; 28*
; 28 ' # #'5! '"'C # -'?W' ' # #
' ' '#!-" '29 23 'B4.+ ; 2 @
-' S(!' :B; -/ /- #3 <B:E25^ -/ -& #'
-/ -/- #3 5.'. 3' -/ /- #3 28< J5' -/ - #3
<:B39J' -/ -& #3 3 +' -/ /- # 3 "M'A" -' -/)'
- B 'V:5 3B:9E2 35J2 ; 39A 4 58 + 932/ 42 -/)'
- 7 '28<B 3 QE:R' J G
,I N 'Q 5*@2* 4' '8R+ G2 / '<B254 95 .K
.253 JB E2 ?9 54 +'8R+ G2 ?9' 89 3 283 ; 92332'
@&25J4+2 @&25J4+2B / T' ' 2+2B 3:93 ' 3' 29B8
< B3 28 534B 29B28 H428 +:.:58 42 52 J2I 82 B2882B*
B253 23 82 .:54258253 <B48 ?92 +28 2A34B 29B28
8:53 3252; 253 2549B: 28 23 25J2+228 < B +2 B: 4'
?9&2++4852 +28 <29E253 89 EB2 ' A !#' 'L< *
; +2B4 ; 253' &28399 25J2+4 .&283 95@2452 =: ; ; 2
?9'52 82 44J:9B4 3' 8
-' # A +6 8' S' < 528 ? @W +'+ 5J=2 5&2:J 2*
+: 3 25 +'G:92G2 42 . 8.95 ' ' ' 3 42
B: 3 25 .2 G: 8 89' E+ ; 253 25J2+42 ' '7/ '
'O I' ' E: 38' :B3 J2+4 ?9&:5 <:9E: 3 G 25 E25 B
@98?928 9A ; 9B8 89B +28 :8848 3:58 25J2+48 -* '
''SE
-' S(!' 5' " 23 J2+2B
' Q 5*@2*+9*B6/ ' ' :5 2; 253 .+B*
.:58.B 3 . 98 53 44 ; 5J2 8:5 23 4:9+29B ? 2 +2
B: 4 3 E25 B 9A 4: J38 428 ; M 58 23 428 < 248 23
9 3 +:5' &25J2+9B2* 283 ?92+?92 : 8 ..: ; ; < J542
42 .B2E 8828
-' S(!'> 'G:5BJ9 J5' 6 , ,
3' 'Q 5*@ 5*"B *G+&/ ";'$9'<293
43B2 25J254B4
-'# 8A' S 6 8' B 3:98@:9B8 .=:828 25J254B *
G+28 5J254B2B:53 .=:828 82 ; G+ G+28 ' ' 'E'
"CC C
-' S(!'<-/ -"# #' 9 A 56 8 4.+2 -/ -"#
'+'8 J5 . 3 :5 .3 E2 2+ 8 J5 2 . < G+2 4&25J25*
4B2B
3 ' H 5*@ 5*4B8; 4B 5*3&@ '
";'$9'25J254B2 ?9'<B:49 3
-' 'O I' 8' 3 89 3 <:9B 3:93 B 5.= 882*
; 253 H<:9B 432B +2 ; 9E 8 J:43 9A G4+ 2B8I' 4&28U

%*'#'"' &"(' 7"/-%*-'"('4!-(,!'10."2 +'$*'2"' "/7"/@
#'0/%"' (!"(%"-/% #"' +"(+"' &0 260&"!" ?9'25 '"/#
+0!.0-("' &0 260-''*'' ' ' Y
"' ' 'Q 5*@ *4B4 4B42/ <:B3 ! "'
4&25J2 4B2B "' L] B:49 3 < B +' J454B 3 :5' 5
; 23 # ?9 54 :5 5: ; ; 2 +2 <4B2 8 .'25J254B4
< B GB = ; 'L 5 ; 23 'E:+:534' " ':9 # 25 3:932
93B2 . B.:583 5.2' 28 @29528 .=2E 9A 25J254B4'
42 E 29A 4 +:58 :9 < B 42 E 29A 43 +:58' L B 2AK
3258 :5' &283 95 82A2 25J254B4 <:9B4 ; 52B 3:93 +2
; :542 ' ' # '+9 8.'42B5' L J J'
4 42' 28 3=4:B 28 25J254B428 < B & 549.3 :5
' ' 'Q 5*@ 5*4B4 4B42/ < B3'
"'4&25J254B2B '$9' '<:9B J254B2' $92 E:98
82B2M G 25 25J254B4 ' +'3; ' F
3' ! 'Q 5*@ 5*4B2*; 5/ ' ' .K
3 :5 4&25J254B2B B489+3 3 42 .2332 .3 :5
' 'O I' 8' ' E4 +' <8 + ; 8328 ?9' 598
H5:98I 4 3 2582 ; 253' 2 E 3 5.'H@2 52 E 8 :5?928
@ ; 8I 42J92B<' 59+ ?9' E 3 +2 3 ; 253 2 59+9'
< 5 ?92B 53 42 895 25J254B2 ; 253 ,&' ' # ',
S 6 8' 2EB28 23 4:9+29B8 8:53 328 25E B:5 +28
25J254B2 ; 258 42 <:BB239B2 ' '
6"N' S 6 8' &283 95 BJ9 ; 253 42 +'+2J2B234 B 5*
.: 82 95 25J254B2 ; 253 42 + B; 28 9A < B258 23
: G+ 882 ; 253 428 52B 8 42 & 83 3 ' , :0
-' S(!'<-/ -"# #"P <B:E25^ -/ -# - -'3 5.'
28< J5' -/ -"# - !3 3 +' -/ - # - !
4' ' Q 5*@ 5*4B4/ 5' :'L 6 B:49 B2
< B E:+2 42 J454B 3 :5P 82 4 3 89B3:93 9 <B:<B2
4 58 +2 83R+2 G G+ ?92 :9 4 58 +2 83R+2 4 4 .3 ?92'
= ?92 5 ; + 25J254B2 8:5 82; G+ G+2' GB = ; '
25J254B ' 8 .' L G8:+9 ; 253' + 283 49 32; <4B *
; 253 ?9& + 93 I'9B 25J254B2B' ! ; ' C ' /'
' M' 23; 2 42 3G4:+:J 2' 29 &"' 4B2 ?9' 283
+'<B2; 4B2 <2B8:552' 42 +' B 5 34 25J254B2 +2
+8 ?9' 283 +'<2B8:552 25J254B42' :98 8 E:58
?92 .2 5: ; ' 42 29 8' ; R834B 233A 23 8' . .=4
283 +2 5: ; ' 42 4B2 2532549 25 .2 8258 <B: :54
?9'+2 3 .:5.2E: B 4 58 432B5 34 <4B2 4&95 +8
4J + '+9 P 23 ?92 +2 52; ' 42 8:5 +8 283 &"' 5: ; '
42 2BG2 2BG2 ?9& + 25J254B2 432B52+2 ; 253 25
82 .:532 ; <+ 53 +9 *; 4 ; 2 ?9'283 &2A<B288 :5 < B*
32 42 +'E4B 34 8:5 ; J2 8:5 +8 95 ?92' &4*
.+ 3 42 8 .+ B34 23 &2; <B2 532 42 8 '89 '3 5.2
'K ' 9 N' ' 6 J' 982B :.. 8 :552B
<B:49 B2 4:552B +29 ' 2 ; 9E 8 B 25J254B2
428 4< 44 ; 28' &:8 E234 25J254B2 +2 E 22' ' *
; + B 34 25J254B2 +2 ; 4<B 8' 9 8 8:9E253 +' .:*
4B2 25J254B2 42 G:58 E2B8
' ' ' & G:54 5.2 9J ; 253 3 +28 :B.28 23 25J254B 3 +28
4 E 8 :58 /I ' , ('+E' .=' " 4 58
' B 25 +5 + BB E2 :9 8:9E253 :9 3:9*
@:9B8 $92 & 82 23 +2 B2<:8 25J254B253 +28 ; :9B8
'@!;"7 ' ' " 2 8:53 3:58 +28 8:58 ?9'<29K
E253 43B2 25J254B48 42 .2332 B ; :5 2 E B 48 23
.: ; G548 4 58 +2 ; :9E2 ; 253 ?9A. B 234B 82 .= B'
?92< 88 :5 '1!-- '&7 '< B3 82.3'
.='N' + 2 < 8 25J254B2B 42 ; 4+ 52:+'; 9 +'
; 4+ 5.:+ 2 43B2 4&95 5 39B + J 82 +EB B 9A
4 E2B3 882 ; 2538' + 52 93 < 8 25J254B2B 4:' ; 4K
+ 5.:+ 2 + 93 82 325 B J' ' :58 ; :BG+29' + 52
93 <: 53 25J254B2B 42 ; 4+ 5.:+ 2 ' C "'
' N' ' 6 2B; 2 42 J4: ; 43B 2' B:49 B2 44*
.B B2 25 82 ; :9E 53 952+ J52 <2.:9BG2 23.'
2 <: 53 ?9'25J2<4B2 952 .R.+: 42' L "6 &25J25*
4B2B 5'#" ' B2 25J254B4' 28 E2B8 8&25J254B253
4 58 +28 . 4 EB28' 2 <: 8:5 8&25J254B2 25 ! .4*
4:+52 9 ",# 'U' 1' MBR' '9" B <<:332 .2332
<23 32 = 83: B2 42 8 '@2952 82 .&283 <:9B ; :53B2B
42 .: ; G 25 <29 8&25J254B253 ?92+?92 : 8 +28 E2BK
8 :58 :9 +28 5.+ 5 3 :58 ?9' 5:98 4: ; 5253 3:932
+'E 2 /I* -. 'K ' " ' ?(" '3'5 <'6 "
-' 'S 6 8' B 'H' ; +I' 98328 25J254B2M
D!- '<' "F'LLA 56 8' 5?92 42 .2++2 ; 2 H +I 52
<93 =: B 25J254B2B D # ' ; ' 9 8& + 283 32+ ?9& *
52 <923 25J254B 2B .+ ?9' 283 52M 25 8' ; 28:5
3:3+2 8 .=253 +'E: 8 5 5&283< 8 8 8 +M 5 ' " ' ;7 '
%F' B 82 3B23:93 +' =: ; ; 2 2582 ; G+2 :A 532 58
:B +28 E:+: 253 H+28 2 ; ; 28I > ; G8 =: ; ; 28 5&25*
J2542BB: 253 '. ! ' "7CF%' 3 8' <:3 283B2 ?9& *
9 25J25B48 4298 ; : 8 :9 <+98 42E 53 +2 ; 5 J2
!'AE5 ' S 6 8' &283942 42 32+ +EB2 25K
J254B2 23 2; G 3 :9 .B: 83 28 .929B8 42 .29+A ?9'
R 2532542534 2.3 :5 23 ; :9B 9 G 25 <9G+ .?92
! < &' #! ' . 25.2 283 25J254B42 < B B K
8:5 -' ' "CN' S 6 8' &25 25J254B2B253 23
5:9BB B253 25 8.:J52 <:9B .28 G28:J528 <+9K
8 29B8 = 528 .:9E2B328 4:53 <+98 29B8 ; 282G2 8
42<9 8 25 5 ?9 B253 % '5 7' ' B +28 JB 548
.:9<8 ?9& + 4:55:3 ' 42A3B2 23 '825283B2 + 8: 3
25J254B2B +' 9 ; 42 4:53 + 283:3 254:8 2B.2 :*
'3' 6 " ' S 6 8' ++2 + E2.'2+2 <:B*

Y)M

3 53 95 E8 838 8' < +2 23 428 3 ?9&2+2 283: 3 <+98
<:98 25J254B2B <3 4 ?92 .:5.9< 8.25.2 !
' !75'S ' 3 8:9E253 E 253 ?9&952 ?92B2+2
25 25J254B2 ?9 3B2 " ' "F' 28 .254B28
4&95 <=:85 A 8&25J254B2 4 .3*:5 95 E2B ' 5
N" ' 2 E.2 + 882 .: ; ; 2 95 9+.2B2 25 + ' .= B
952 B2<253 5.2 25 & ; 2 ?9'3:98@:9B8 8&28JB 3 J52
23 8&258 5J+ 532 2+2 ; 28 ; 2 . B + ' B 8:5 2 .2
+28 9+3B28 3B 8328828 23 4:9+29B8 ; 8 2+2 25J25K
4B2 .2+2 42 + ' B2<253 5.2 ?9' 283 <+98 JB 2 E2
4& 93 53 ?9&2+2 5 83 9 424 58 5' 5 N7
- ' (! ' B:E25^ - / -# #' - / -"# #3 28< J5'
- / -"# #3 3 +' - / - # # 3 49 + 3 5' - / - # # '
42 35 23 / - # ' QE:R' 7 G' & 5.25
B 5? 8 E 3 49 + 3 5'35@3@52B2 +2 E2BG2 - / -)'
"# ' 9 < B 3@&25J.59
' ' ' Q 5*@ 5*4B4/ 5 ' ' :9BE: B
4&95 J254B2' 2 G2 9*<2B2 939B .B 53 G 25 ?9:5
52 &25J254B2 6'.: '+2 1& # ' " ' '5! B' 0
%' ' B254B2 <:9B J254B2' ' 2B5 54 P ' ; & 33254
.:35 ; 2 J254B2^ - ' ' 98 ; 5' ' E2.' ; < 3 25.2
3 3B:9E2 3:93 25 E:98 32+2 ; 253 ' 8:5 JB4 $9& +
E:94B 3 4 28 42 ; 5 E:98 E: B 25J254B4 5' H)'
- ' "!7 ' 0 "' LL &25J254B2B 'B4[' 2 4:552B
95 J254B2' ! ' : + @2 ; &25J254B 8 4&952 G2+2 ; *
4B2 ' & 3' N
- ' (! ' > 5 " 23 / - "#
3' ' ' Q 5*@ 5*4B29B/ 3' ' 2+9' ?9'
25J254B2' &25J254B29B 23 &25J254B4 9 ' '
')
' 'O I' (' 5J254B29B 9
- ' (! ' <- / -"# # "P <B:E25^ - / -# #' 9
5: ; 5 3 25JB25B:4:B 9 B4J ; 2P 28< J5'25J25*
"# "!#3 3 +' - / - # !#
!J - ,' Q 5*@4*+4/ W' : :R' E
!J - 0 ,' DO/@9$&&"!'E' ' ' *8' 8
' Q 5*@4/ W' ' LL 6 5.2552 ; 253 <:9B*
: B 4&95 <+ 53 4&952 =2BG2' 5 32+ ; & ' 25J4 42 .2
<+ 53 ; 8 @2 5&25 28<4B2 B 25 42 G:5 6 '
$9' ' 25J4 E:3B2@ B4 5 42 .2332 =2BG2^ 2+2 E 93
B 25 5' & ; G 88 429B .:3 ' 25J4 + ' B 5.2 42
&=2BG2 5 .:3 52 H3 G .I ' " ' ' LL 6 9*
@:9B4&=9 G 25 ?92 E 2 + 23 <29 98 34 .2 ; :3 8 *
J5 2 2 ; G BB 882B 4&952 8:332 :9 4&952 ; 9E 82
25J2 5.2' :3B2 <4B2 82 5:?92*3* + 42 E:9+: B E:98
25J2B 42 8:5 E:. 3 42 ; :J28^ ' 0!7#(' ' '
'+28 25J2 '42 <23 38! M +:58 28?92+8 :5 3 42 <2*
3 38 ; : 5 +:58 ' ' C B
- '# 'S 68'! 8 82 ; & ; 2 ' .92B .= 5J 4
+2 ; & ' 42 ; :B3 25J 4 D ' ' &'E' % 7 &95
.= <:5 3:B54 ; :93 G2+ 2 .= 2B28 =2BG28 9
.= 942+' -:.9 4 2B253 B2 ; 25J 2B ! 8 58 H+I
52 8&25 <293 25J 2B ' E' M M ' LL AE6 8' - 3:83
.: ; ; 2 G2+ 2983 2834 :.. 8 23 293 B2.29 ; :B3 8:9GM
.283 BGB2 + <2B4 3+ 'G2+2 .:9+29BE2B32 23 42E 53
25 3:9328 .=:828 E2B ; 2 + ?9' 93 25 B2 ; 2 ; GB 5.2
49 8 5.3 8 5J ?9' 4288:9GM E: 3 2834 B28< 549P
52 42 .2+9R 52*<:9E: 3 59+ 93B2 <+98 25J 2B H.B:3*
3B2I 58 ; :9B: 253 3:9328 +28 <+ 5328 ?9&:5 25 $0-@
8: 3 23 'G 25 52 <:9E: 253 E25 B + -(! ' "7' (
' && '$F " N 4 58 ' LL AE 6 8' B2 +2 ; 253
93 9A 2 ; ; 28 25@: 53 42 <:B32B 42 JB:8 .938 23
4&25J2B 25 3:932 89B234 8:98 .29A 8 58 .B 54B2 +2
G G + 428 8 J28 2 ; ; 28@ ' C"-'<' "7F
- ' (! ' ; :98 5 -"B"'8&25J254B2B 25< B*
+ 53 42 + ' E2B ; 52 8 B42 - / # ' B2 428 :29 8
B2 428 <23 38' ! :3 :G8.9B' 2M+2 3 B2 49+ 3 5 -)
' ; 233B2 ' ; :B3 443B9 B2' 334B +2 ; 253 + '44*
B E 3 :5 283 2A .32 254 B2 4:55 53 - / #' 25 <:B*
39J 8 - / #' <B2882BE E2 ; 2532325 2552 ; 0.: ; ; 2
5 -" (# ' 5 - / #' ! 8 +2 8258 <B482532 G2 9.:9<
42 4 .9+34 ' - / # ' 429A 8258 ' " ' 2 ; G BB 882B
I - / # 283 - / # E2.' + '<B4<:8 3 :5 4/P 6 .B:+3B2
E4J432B <B:49 B2' 2.28 429A 8258 +2 <B2 ; 2B .:5*
E 254B 3 <293*43B2 ' - (# 'P' ; 8 +2 82.:54 <293* +
25 <B:E25 B ; 4 ; 2 ?9 54 :5 4 ; 233B 3 ?92 - / #
8 J5 2 3:9@:9B8 <B:49 B2 428 .=:828 59 8 G+28P .2?9'
5&283 < 8 4 58 5:8 2A2 ; <+28^ + 82B 3 <+98 . +2 42
B23:9B52B +28 8 J5 . 3 :58 23 42 4 B2' - / # 8 J5 2
<B ; 3 E2 ; 253 <B:49 B2 <9 8 J9B4 ; 253 ; 2 ; G BK
B 882B < B .2332 <B:49.3 :5 ; 4 ; 2' ! 8 4&: + 3 B2B
- / # 25 .2 - ' ' - / / - # ' ?9' .:5E 254B 3 <:9B
+2 8258 52 .:5E 253 25 9.952 ^:5 <:98 + ' :B ; 2'
+ R E 3 988' 95 89G83 53 ' - / ' : ; 8 82
+9' 8. E: 28 $92 2&283 JB 54 .=:82 42 + :25J2 3
D.: ; '<B 8 2 25 283 + ' 25J2 +98 .= 2B & 9B: 28 '
E: B 88' D7 ! - ' " ; ! - ' 3 42 3 3 53
?92 &25J2 428 .:B4:55 2B8 8: 3 2 @ ; 8 +8
5& 9B:53 932 42 32+28 B2+ ?928 H+2 8:9+ 2B 42 3
>2 5I 7 9 ' "NN' <- / '8 J5 2 .' B .2P ; :3 25K
.:B2 98 34 E2.'.2 8258 25 :B ; 54 2 ' 28 < J2:58
42 + ' JB 542 :9 42 + ' <23 32 25J2 H28<422I' 5 5' +
R' '25.:B2 95 E2BG2 ! - / # ?9 E9 +2 .= 5J2 ; 253

5:5 B B2 42 ! - ' 25 - ' :9 - ' <293 B2<B482532B -N
/ # :'S 6 8' B:58 3:B5: 2B ; : ' 23 E:8P B 52 42E2M
' < 8 +:5J 2B + 28 +28 3:B5: 2 ; 258 :5J 2B 3
5< 5B2 H253B2<B254B2I 23 3:3 :B8 J 32B H+ 882B
3:93 +2 B2832I =23/ 7' ! - 'E' N "P A5 6 8' 5J 2B
2 ; 2 H E: B 428 B <<:B38 E2.' 952 2 ; ; 2I '
' 6 0' 58 &\ 3 .392+ 428.:55 88 5.28 +28
4 .9+34 8 B283253 52A3B . G+28 + ' ++982 .:5325*
32B 42 B495 B 3:93 .2 ?9&:5 8 3 428 :B ; 28 23 428 8K
J5 . 3 :58
3 ' Q 5*@4B*G *@&/ ' ' .3 :5 4&25*
J2BG2B +28 G 48 ?9 '8:53 25@ E2+28
' Q 5*@4B*G4 G42/ # ' ' 48
25J2BG48
Q 5*@4B*G4/ / : ' LL ` ! 233B2 25 J2BG28'
' 6 B 2A3258 :5' 53 882B &95 89B & 93B2 ; 233B2
25 3 8' 5J2BG2B428 3:552 9A 42 E 5
' , ' 5' " 23 / #
'Q 5*@ 5/ 8' ; ' LL]' 4B2882 54983B 2' LL 5
.2 8258 + 52 82 4 3 <+98 ?92 <B:E2BG +2 ; 253' ! 29A
E 93 25J 5 ?92 :B.2' LL ' 583B9 ; 253 ' <:B32 25
43 3 G 882 23 82 ; G+ 3 95 J9 .=23 $9' 5& E 3 <:98
82BB9B2 93B2 25J 5 ?9&95 .B:.=23 '@
S' 5 25J 5 <:9B . 882B 428 5: A 8 0 3 J
' ' :B5 4:554 '3:9328 8:B328 42 ; .= 528 .: ; *
<:8428 89B3:93 ' .2+28 ?9' 82BE253 ' +2E2B :9 '
3 B2B 428 B42 9A' LL ! .= 52 <+ .42 4 58 +2 .: ; G+2
4&95 ; :9+ 5 <:9B ; :532B +2 G 4' LL ! .= 52 43 G+ 2
89B +2 .=2 ' 4&952 . BB 4B2 <:98 25 3 B2B +28 G+:.8
4& B4: 82' LL 5J 58 42 J92BB2 +28 ; .= 528 4 53 :5
8282BE 3 E 53 &2 ; <+:' 49 . 5:5' LL 4J2' 5
25J 5 ' <B254B2 +28 B 38 ' , #/ 'E' 2 + '
5 3B:53 25J 58 'E:98 25E2+:<<2B ' % ' ' '
F' 2 ?9' +28 B <:58 8 E253 B2 5 25J 5 <:9B
<B254B2 +28 8:38 ' :3 " '0#7 ' " " ' LL?7 7#'
2B ; 2 42 .= 882 23 42 <4.=2 &2582 ; G+2 42 .2 ?9'
82B3 ' 4?9 <2B 95 .= 8829B 95 <4.=29B' LL 5J 58
<B:= G48 8:B32 4& 583B9 ; 2538 42 .= 882 :9 42 <4.=2
44 254 98 < B.2 ?9& +8 443B9 B 253 3B:<42J G 2B :9
42 <: 88:5 #36 2B ; 2 42 ; B 52 23 3 G 3 ; 253 42
J92BB2 ; + .:583B9 3 23 ; + B ; 4
- '# ' O I' (' B ?92+ 25M 5J <:B ' E2B8 +9'
+2B^ < ' < ' ' ' E:8 25J 28 828 4:5@:58 G 39M
' < ' " " ' 3 ?9 53 42 + ' G28:J52 9B:53 + ' 5 :+2'
:83 9B:53 <2B.2 + & 5J 5 42 2+:5 2' # 7' AA' 2
<:B253 & <:83:+ 2 H+2 < <2I < B 25J 5 42.2E2 B *
89B +2 4 B28<9549 .9 ; '=92 ; 42 JB 53 8 E2 B' 2
<:2834 52 <923 59+8 .= B425 98 H59+ . B4 5 +I E2 B
9 ' ' %N' :52 283 :B.2 23 25J 58 ; 29A
E 93 'E 93 25J 58 : + :B.2 93 I 7 'D#7 '
F N ' 'A ; 6 (' $9& + +:B 4:5B: 253 5 E 2 H+:332I 25
G:552 :'238 58 ; + 25J 5 < B+ ?92+2 + <:9B: 253
G 25 +28 25 + ' 32BB2 42 9B 2 6' ' :3 . +
?9' 8:53 4&25J 5 23 4& B3 :53 ; 48 39 3 <2+2 2*
5 B3 < ' " C' ' ; :B8 A ?9' 9 25 &25J 5J 9 42
B: ; J2 42 J 5P 3 +' + M283:3 28325498 B 428898
4298 < 88:58 H< 29AI 25498 ' "F F ' .232
H8 ; <+2I 9 H>2952882I 8' 52 <258:3 9+ ; +52 52
59+ 25J 5 ?9'8: 3 '< ' " C ' 592E 8 ; 2 E2B39
?9' 4:3 283B2 25 .=2+' H.2+9 I ?9' 8&253B2 ; 23 42
! + 2 8'283 ?92 + 3 25 + ' 8:93 + 25J 25J 23 = 83 '
42 G 25 28<+: 3 2B 6' $ ' 5 93B2 ; 5 2B2
<:3 2B2 <28?9 2B H<4.=2BI '3:9328 ; 5 2B28 4&25*
J 258 ?9' 8953 .:9839 ; 4 ' <25B2 <: 88:58 '
AA E ; "F' 28 .:<M H.:9<8I 428 25J 58 98 B*
B M 58 ' ' LL A E6 8' 9.95 .= 532 G 25 :9
3 R ; J28 :9 9+3B28 G28:J528 8 58 B3 23 8 58
4:.3B 52 < B 8:5 25J 5 ?9' 28L' ' .2 5 39B2+2 ; 253
25.+ 5 ' > ' O ' 2 E:98 J B 53 B:53 +28
; 9B8 52 +28 :882M 2 JB 54 <:53*+2E R8 5&25*
J 58 G 25 .= B<2532M 2, ' "FNN7' LL AE6 (' 2
; 28 ; 2 @:9B +2E2B253 .29A 42 +25. 25528 95 3B28
G2+ 25J 5 23 G 25 @23 53 ?9' <:B3: 3 +28 JB:8828 < 2B*
B28 @98?928 424 58 + 'E +2 23 9 .= 832 9
' ' " %' 3 + ' 3 2B.2 < 2BB2 93 8 G 25 <<: 5342
?9&2+2 2B 3 &25J 5 < B ; ' + ' +282G2 23 + ' B: ; < 3 25
429A ; : 3 48 ' ' " N' 29842 &:83+29B@23: 253
23 25E:R: 253 < B +29B8 25J 58 .=2E 9A ; :B38 23
G28328 ; :B328 23 <9 58 <:9B 29A 2 ; <95 82B '
"N' ! :R ; 292 42 428 B 4& .: ; <+ B 8:5 G:5
E:9+: B 82+:5 &28325492 42 ; :5 : G+2 25J 5
' ' 83 &25J 5 42
&25 53 4 8<:82 'B2.2<E: B32+2 4 8. <+ 52.: ; ; 2 :5
+9'E29+3 G +2B ' &=:832+ 5&283: 3 < 8 8'JB 54
52 8' <29 42 +9' = 534 3:93 25 42E:3 :5 ?9& + 52
82983 G 25 +28 25J 58 H43B28I +8 ' !75'AE'
+8 <258: 253 23 59 3 23 @:9B < B ?92+2 ^:5[23
; :R25 +8 82 <:9BB: 253 B25.:53B2B ; 8 +8 5&R
8 E: 253 25J 5 H ; :R25 I 3B:9E2B ' '
* o I' 8' <B48 .2839 3B: 8 28 ; 2 89..24 ' & J2
4& B 5 ?9' +28 429A 2A.24' &25J 5 ; 9E 8 !
? ,&' =' "F' :93 8:5 25J 5 ?9 53' + ' .:J5: 8*
8 5.2 42 29 283 <9B2 :G8.9B 3 ' - ' "7C

B 2"% O'%-$-2" -&(' ".-%"'"/% &" 4"'-& "% O2,!-@
'"/% &*!0/7"' ."'-$-0/(' 2" .-"!:'4'*."'; "$'0/2*-('
,!!"/7-/' .0!% +-"!:',!"$*'2"' " ' EEQ' 5*
7-/('#" ; 0%"'-" '%-'"" O!' &*-/7' $ ' , ! ' "F
+ +2 ; 2 3 253B2 +28 ; 58 42 2+:< 4 8 25 +2
<B 53 ?92 8& + .:J5: 88: 3 ?9& +29B 2983 3 ?92+?92
3B = 8:5 <9 9.95 3:9B 42 ; + 25J 5 +M 2 88253
42 .23 25 53 .: ; ; 2 4&95 2552 ; R ' O ! ' "C
- ' (! ' :B ; - / - ' B982P <B:E25^' - / - -)'
/ - ' - / -&' - / -)' 28< J5' 35J X GP<:B39J' 25*
/ - &!3 3 +' - / / - !3 49 + 3' - / - 7 '42 - / - # '
; 233B2 4 58 42 5 88 5.2 42 - ' 25 23 / - # '
D.*8' @
3' ' Q 5*J+ 5*34 2/ :4[' 2B ; 2
42 G+ 8:5' = 52 25J+ 534 .= 52<:B3 53 428J+ 548
4&95 93B2 ; + ?92 & BGB2
- ' (! ' < - ' " "% / - "
c Q 5*J+:*G G 2/ - ' " ' 28
82B 8 :53 4:52 3 '@983 . G+28 < B.2 ?9& +8 82 8:53
3B:9E 8 89B +2 32BB 3: B2P 23 +8 5&:53< 8 4:55 ' &:*
B J 52 9A 2 8 <:9B E: B 3 '25J+:G 8 4 58 +2 2
$' < ' SSS
' Q 5*J+:*G / E' ' 95 B 4 58 '
829+3:93' 5J+:G2B 95 .= ; < 4 58 95 4: ; 52 ''
'25J+ '+2 3:93 4 58 95 B3 .+2' $9 54 +28 2 ; 58
@: J5253 + ' RB 2 ' +29B E 832 4: ; 5 3 :5 23 25J+:*
G253 +2 <23 3 < R8 42 + ' >94 2 4 58 +29B 2 ; < B2
' ' & ' K ')'
- # 'O I' 8' 5J+:G2B H42E25 B B:54I 9
- ' (! ' 5' " 23 / !
5 ' Q 9*J+:9*3 3 2/ <:B3 '
4&25J+:93 B' LL ' E + ' E2.' E 4 3 ' 5 4&29A H<:98*
8 58I 8& 3 53 . B3 5 :3B2 ; + 42 +2 E: 3 25J+:93'
< B 95 .= 25 E 42P 2+2 ..:9B3 2+2 +9' BB .G2 .23
55:.253 5 ; + ' ? - - " 'H! - ' LL ' G8:BG '
.: ; ; 2 4 58 95 J:9 B2' 882M 4 58 .28 8 +:58 E:*
3B2 8 5J 25J+:93' ' 3 9 ; 2B +2 .= ; < 4:53 + 3 3
8:B3/ ' 0& " ' 3 + 82 E: 3 3:9@:9B8 25J+:93'
.: ; ; 2 95 3: ; 2 ; <2B.2<3 G+2 4 58 & ; 258 3 ' 42
&95 E2B8 ' " ' ! #' "66 3B 3 .= ' '
58 +2 5 53 4:53 E:98 328 8:B3 8' :58 :53 3 '
.: ; ; 2 E:9825J+:93 8 ' ' , - - ' ? / ' " ' 28
J 5 B 3 :58 =9 ; 528 89..288 E2 ; 253 25J+:93 28
4 58 .23 ; ; 2582 ; . 5 42 & 32 ; 3 P 23 29 ?9'
B2832 23 ?9 '+28 33254 6 6 ' 34 ; ' " ' '
3' < ' N 4 58 7
' Q 5*J+:9*3 B/ 5 ' : ' LL 6 E +2B E2.'
E 4 3 ' + 25J+:93 3 +28 ; :B.2 9A 8 58 +28 ; .=2B'
29 3 25 ; ; 2 32 ; <8 ?9& + 82 3B:9E ' + ' 95 JB 54
<: 88:5 ?9 25J+:93 3 >:5 8 +42 ; 29B 3B: 8@:9B8 23
3B: 8 59 38 4 58 +2 E253B2 42 .2 <: 88:5 'D '
! - ' ' " ' ' J' G8:BG2B 8&2 ; < B2B 8 8 B'
<:9B8: ' + E 253 + 'G:92G2 G 532 25J+:93 B 3:98
; 283B 8:B8 9 " ' U' 1 ' 9' " ' 2 JB 54 2 ; < B2
?9' '25J+:@3'3:98 +28 2 ; < B28 42 &95 E2B8 'g
K ' ; N' 58 .2882 E:98GB +2M 42 E: B 3:98 E:86
< B2538 5J+:93 B ' + ' .:9B .= BJ28 4 J5 3 8
B 5J8 ' @ ' A' & + 25J+:93 3 '@ ; 8 &= B*
3 J2 :53 + ' 5 39B2 E 3 3 ; :5 < B3 J2 9 '
<- ' #!" ' ' ' ' +2 3 3 5 2 4 58 +2 E: 8 5 J2
4&952 JB:882 GG R2 42 .253 ; +2 + EB28 42 B2532P
8:5 ; B' ; 2 42 ; 548 95 *@:9B <:9B?9:' .28 ; 28K
8 29B8 ?9' 3 253 25 <23 3 5 ; ; GB2 E 253 25J+:93'
3 53 42 < B38 42 ?9 B 532 .98 ' ' K ' 7B' " '
(7 3 5 -7' & ' E 53 ?92+28 2 ; 58 2988253
25J+:93'3:9328 +28 B <9G+ ?928 + 5&R E 3 <B28?92
<: 53 42 B: 8 5 :+2 < B3 C' <@ 'B ' F' ' 5'
+9A2 58 3 G+2 H42 : ; 2I 25J+:93 3 +28 3 38P &95 6
E2B8 2838 '<B: 2 2352+9 '89 3 < 8 '@ # '.
N' ' ' G8:BG2B .: ; ; 2 4 58 95 J:9 B2' $9' 5&243
. ; '?92 .2332 32 ; < 32 + 3 25J :93 B 3:93+2' :92B*
7!"% ! ' 0 " ' A' #O/(' O' + " '
&25J+:93 3 E2.'3:93 8:5 B42 9 ' ' " O! '
Y' 28 +:38 :53 25J+:93'.23 <:9A 5 4 +2 '
0& " ' ' $92 &25 2B 25J+:93 882 23 E:98 23 +0
< 3B 2 9 ' :52B 9 'E' :5 5.2 ; 3 E2B398
<+ 8 B8 :+ 3B28 @29A + ' 32BB2 '3:93 25J+:93 '
:988' K ' ' ' ' ' J' 28 5:8 9B253 25J+:9
3 8 4 58 +2 <B . < .2 ?92 +29B <2B 4 2 23 +29B E K
4 3 '+29B E 253 :B298 $ ' K ' & ' +' " " '
9 4 58 .28 5:B8 . .=:38 4 58 .28 ; 9238 G3 ; 28
' 25 82 25J+:93 3 +2 .:9< G+2 23 828 .B ; 28
!2-(' & ! ' ' $92 B2832B *3* + 4&2+2 H+ 'E9+*
J B2 @29528821^' '<2 52 95 8:9E25 BP 2 3: ; G2 9
?9' & 33254 &25J+:93 3 3:93 253 B2 'A ' '
- ' ' 32B5 3 5 53 < 88 8: ; GB28 G ; 28 $92
328*E:98 428 @:9B8 ?92 E:98 25J+:93 882M^ 5' '
" ' ' "]' 88 <2B 4 E:B2B' ' 25J+:93 25 <29
42 32 ; <8 .2332 B .=2 89..288 :5' LL 6 &25J+:93 B
'# ' 2 <2B4B2 4 58 95 J:9 B2' #2B.9+ 59 ; '8&25*
J+:93 3 8:58 428 +:38 42 + E2' 2332 :9+2 42 B J :58
4& 3 38 4:53 +28 .:5?9 328 428 88RB 258 428 ! *
428 '428 2B828 25 8&25J+:93 88 53 89..288 E2 ; 253 0

+28 952a +28 93B28 E 253 :B +' .2 JB 54 .:B<8
Q&2 ; < B2 4& +2A 54B21 # 3 " (' -'@!#['
!-- ' B3 J2 53 +2 4283 5 49 .:B<8 ?9'+' B2. ! 2
58 + ' 59++ 49 3: ; G2 5 & ; 2 8&25J+:93 3*2+2^ :
? 'A C ' M
- ' ! ' ! : B2 ' 4 3 25J+:93+B +2 .:29B <:9B
8:9+2E2B +2 .:29B' :9 =+ E:98 ; &25J+:93 882M +2
.:29B H' -" - ' 5 &283 95 B.= +8 ; 2 25*
J+:93 B '29 +2 '8258 42 E: B +2 =:?923 E:R' &= 8*
+:B ?92
- ' #3 'S 6 8' '+'B2?92B253 . 582 + 4& 22+2 .:82
9& + 953 :+3 \' ; 9+3 +28 428.:5 :B323 2 J9 B4253
9B2 &=29B2I ?92 32BB2 528 5J+9323 @ '? B '
A ' S 6 8' ; : +3 JB 58 3B 8+2 :B3 E 5 25J+:3 B
D '">? ? - ' E'KD4''LA ; 6 8' 88 '3:M E E25M +28
25J+:93 B '25 2B8 25 & B24 ; 2 29 0 7 # 0 '
#2 2A ' 92 2B 8*39 42 .283 .=23 8 4:+253 2
?<' & ; 2 25 B '25 25 2B +2 G: ++ 53 3 + ' ; 9*
2M <28 4 G+28I & B:53 \' +29B< 2M 42 :9+ 53' = 2
32BB2 ?9 B:2EB2 H:9EB2*3: I 8' ; 2 E '25J+:93 53
-" ' < 7%' B + 52 29 4253 < 8 ; :B B 2 42*
425M+ '32BB2 <:BB B !G8 8' 2B:53 $92@\'J B42 52
8&'B254B:53 $92 32+ ; :B82+ 25J+:93 B:53 Q +8 E *
+2+G 3 32+ ; :B.2 91 $9'+29B 59 B $92 + ' + 882
4& ; 2 25 B ' 5 25 2B 5 ' 5 82B<253 8
; 2BE2 ++29A $9'E293 3:93 +2 ; :542 25J+:93 B A-)'
(!#- ' ' # - ' 'AE6 8' +8 8:53 E2598 25J+:93 B
.2839 '33G8 5 :G+2 23 3B\8.=B283 25 B:R 9 ; 2 :' 6 :'
) '1&#!-'0#! 'LAE 6 8' 2BB2 25J+:93 83 ; 28
J258 ; :B8 ; 82B G+28 & B .:BB: ; <9 ; 2 E: ; 83
828<: 8:58 S' '9' C'$9 5& E29 H95@:929BI'
; 8.=2B 23 25J+:93 B H B +2BI +28 .G B328 H. B328I
<:9B E: B :4 82 E25J2B 42+ ' <2B32 42 8:5 BJ253^
! ' ' 5J+:93 B H E: B +2 =:?923I 6 ' 23

' 5 3 23+2B 4 . + 48 / !7 !-' hE:R' .2
; :3/ <B:E25? ' -/ ! #3 5.'28< J5 -/ 7 #3 3 +'
-/& !A # ' & 5. 2552 .:5I9J 8:5"> -/ !7 #\3 3
. ; ; 2 .2+8 ' # #: -/ 7 9 89G@:5.3 25*
/ !7 - ' 9 < B3 . <2 <B28253 .&283**4 B2 ?92 + '
5 +2 #'B2<B282:32 + ' 5 +2 + 3 52 # '23 5:5' #
3' ! 'Q 5*J+:9*3 *82*; 5/ 8' '
:+:J 8 ; 2' .3 :5 4&25J+:93 B B\89+38342 .2332 .K
3 :5' &25J+:93 882 ; 2534&952 E + 2 <254 53 95 3B2 ; *
G+2 ; 253 42 32BB2
- ' (!'<-/ !7 #
3' N 'Q 5*J+:33*3 *829B/ ' ' 2*
+9'?9'25J+:93 3
- ' # ' > 8' :9B5 82 25J+:93 882982 58 3 '
&
' @-/&7 #
c Q 5*J+9*2 42/ # ' ' 549 3
42 J+9' 28 GB 5.=28 25J+9428 'L B 8 4 58 + 'J+9'
5 : 82 9 25J+9 'L J' B 8 .: ; ; 2 4 58 42+ 'J+9'
'+28 25 E293 .:5E 5.B2 23 + +28 R + 882 +:5J*
32 ; <8 25J+948 H4 58 428 B 8:552 ; 2538@
3' O'<' " 4 58 'L B:E2BG2 '
.=2R .=2 283 25J+942 .&283**4 B2 +28 E:+29B8 8:53
<B 8 9 < 2J2
' ! 'Q 5*J+9*; 5/ 8'e* .3 :5 4&25*
J+92B B489+3 3 42 .2332 .3 :5 'L + 82 4 3 428 =9*
; 29B8' 5J+92 ; 253 428 = 9529B8 9 = 93 49 52M
!7 ('"' ' - '"7 B:3 Q H :98 S I <' CN'
' 2B ; 2 B9B +' : ; <:8 3 :5 4283 542 \' B2. :9EB B +28
<+ 28 428 BGB28
- ' # 'S 6 8' 5J+92 ; 253 :55
- ' (!'<-/ 7 #
'Q 5*J+9*4/ @&25J+9 8 5:98 25J<+:58
E:98 25J+9 2M ?92 25J+92 ?92 5:9 25J+9+:58
?92 E:98 25J+9 2M W' 'L 6 549 B2 42 J+9' 5K
J+92B 428 BGB 882 9A <:9B <B254B2 428 : 82 9A'
' " B254B2 E2.' 42 + 'J+9' 5J+92B 428 : 82 9A'
' J' B254B2 .: ; ; 2 4 58 42 + 'J+9' 28 5 82B 28
93 +28 23 8<4. 29828 <B:<B28 829+2 ; 253 \' 25J+92B
?92+?928 G333:B - # 7#' '#"# '
" ' .! #! B'<'7N 4 58 ' 28+:9 5J28
43 253 G2++28 23 G:5528 ; 8 @2 5&43 8 < 8 882M
8:3 <:9B ; &25 + 882B 25J+92B ! ' "NN "C'
'@>' &25J+92B 2 # B2 <B 8 \'+ 'J+9' 23 : 82 9'
8&283 25J+94 'L &4< 88 B .: ; ; 2 42 + 'J+9' 28 B28328
4&=9 ; 29B8I 8&23 53 4< 8 8 23 25J+948 93:9B 42
+ 'J:BJ2' !7#- ' " ' - '"7 B:3 Q :98 S I
<' CN' ' @J' &25J+92B 43B2 <B 8 \'?92+?92 < 4J2
- ' # 'S 6 8'<'< B+'JB 53 :B.2 42 +9'23 4:9
.=2E + 82 3B:9X2+ 'H< 32 9J2 I' + 258 25 32+ ; *
5 2B2 ?9& + 283: 3 E 8 8 < R8 58 ?9& + 983 5J+948
1&#" '. - ' "7'>2:' ' +2 + 983 .'HB:88 J5: I' 5K
J+24 9B ?9 'E98 E2M 3 53 E2 ++4 ' + 7 A '
' O I' 8' 5J+9R2B <B254B2 :' J+9RM 5:' 7 '
5 # 'ILAE 6 8' #982?9 58 ; 5 B8 H ++28 ; J5 B*
428@ 5B .= 8 42 B4M +98 29B8 25J+92B253 @ C
'E 'CN
- ' (!' 5" / 73<B:E25.' -/ 7 #' -/ 7" #

3& B (# $ ' Q 5*J+* *\&/ 4[' $9 ' B <K
<:B3 \+ ' JB E9B2' 29 98 +4
'& RR e ?23E 42 4E 25 23RS 33E JB E2B
3' 'Q 5*J:*G *@&/ ' ' .3 :5 4&25*
J:G2B
3' 'Q 5*J:*G&/ ' ! 3 GB2 32BB2982 4:53
+28 <:3 2B8 B2.:9EB253 +29B <\32 <:9B 25 .= 5J2B + '
.:9+29B
j' 'Q 5*J:*G4/ ' ' <<+ ?92B 95 25*
J:G2
- ' (!' 58 4:932 25 " 23 1 ' 5 :B ; 5K
4 2 :5 4 3 & 1 '<:9B 8&43:9 2B 42 5:9BB 39B2
3' ! ! 'Q 5*J:* ; *@&/ ' ; ' .3 :5 4&25*
J: ; ; 2B' 5J: ; ; J2 4&95 3 889
3' ! ! 'Q 5*J:* ; 4/ :' 549 B2 42
J: ; ; 2' 'L 2B ; 2 42 <:3 2B' :9EB B +28 . 8233284&95
4 ; + 3B48*. = BJ4 42 <+: ; G
' '<-' ' 23 / ! #
' Q 5*J:5*84 842/ " ' "
' $9' 283 = G ++4 42 32++2 8:B32 ?9& + < B +3 E: B
+2 .:9 25 :5.4 4 58 +28 4< 9+28' :8 429A 4 ; 28
42 B 5.2 G 25 25J:5.428 G 25B: 428 G 25 ; 8*
8 E28 G 25 J5 :G+28 G 25 ; 988 428 G 25 <+ ?9428
42 E2B ; + :5 " " ' # ' $ 9 . 3 A ; '
<' R ' 4 58 4*! ' # 8 .: ; ; 2 E:98 4328 25*
J:5.42 4 58 E:3B2 .:B823 "' 0 ' / ' 0
F' ' $9' '+2 .:9 25 :5:4 4 58 +28 4< 9+28' :9B
; '3 ++2 :5 52<293+ '3B:9E2B 25J:5.42 '
5'< ' ' ' E " ' ! :53 J92 5&43 3 B 25
; : 58 ?92 G2 9 5'@29 52 G 25 3 ; 8 95 <29
JB 8 25J:5.4 23 :B3 B:9J2 ! ' cD ; cW
3' ' >! 'Q 5*J:5*82*; 5/ ' ' 3 3
4&952 <2B8:552 25J:5.42
'h 5*J:5*84' 2 '<B254 952 .44 +2
42E 53 :' :9 :' b@&25J:5? 5:98 25J:5?:58/ / ' '
B2 < B 3B2 25 < B+ 534&95= G 3 +2 .:9 25 :5.4
4 58 +28 4< 9+28' 23 = G 3 E:98 25J:5.2 'L &25J:5*
22B W'#" ' B :5:2B +2 .:9 4 58 +28 4< 9+28 :9
8&= G ++2B 42 ?:5 \' < B 3B2 25J:5.4' &25J:5.2B
4 58 8:5 = G 3 4 58 8' .B E 32
- ' # S 6 8' 9J:5.2B H235G BB 88231 :95 ;
9 (
' '<-' ' ' / ! - "3 - / ! - (# 43 53 .: ; < B4
\' &43 3 4&952 <:B32 5@ 82 25 828 J:548 <:B39J' 25*
/ ! - !' J:54 3 + ' / ! - !' J:54 28< J5' / ! -
7 7 ' Q 5*J:B*@4 @42/ <:B3 ! "'
3L+0 G83B94' 5 9A 25J:BJ48 < B + 'E 82 0' 28
=:554328 25 538 $9' 42 E: 2 BB E253 3:58 +28
58 3 4253 + ' ; 5 4J4B2 ; 253 2889 2 28 +:5J8
. 5 9A 25J:BJ48 < B + '8 2 9 ' 0 , / ' 1 '
' ! :9+ 5 25J:BJ4 ; :93 5 ?9' 52 3B E ++2 < 8
< B28 ?92 &2 9 283 3B:< = 932' 'L 5:5 25J:BJ4
. 5:5 4:53 + '+9 ; 4B2 82 3B:9E2 G:9.=42' 'L J'
4J2B 4&43942 23 4&:BJ92 + 25J:BJ4 > 3B2 # :94 B3
82 .B: 3 95 <23 3 J+2 9' ' ' ?" ' !' R'
2B ; 2 42 ; 442. 52' $9' 283 +2 8 4J2 4&95 25K
J:BJ2 ; 253' 8892 25J:BJ48' 'L> ; G2 42 .=2E + 25*
J:BJ42 @ ; G2<+2 52 4&=9 ; 29B8 'L 6 B < 25J:BJ4
4B < ?92 +2 <9+:5 5& ' < 8 253 4B2 ; 253 42JB 884'
' I 2B ; 2 44 .:583B9.3 :5' # :9+9B2 25J:BJ42
; :9+9B2 ?9' '<2B49 952 < B3 2 42 828 :B ; 28 < B+'
?9 53 34 42 <2 539B2 ?9' '434 ; 82 428898
! 'Q 5*J:B*@2*; 5/ ' 'L 6 452
4&4.:9+2 ; 253 < B :G83B9.3 :5 4 58 95 39R 9 4 58
95 . 5 + 'L ' 2B ; 2 42 ; 442. 52' 9J ; 253 3 :5 42
E:+9 ; 2 23 8:5E253 42 .:5 83 5.2 . B 234B 842 < B
+ '<B4825.2 4&952 ; 3 4B2 ; :B<=2 42 ; *8: + 42 :9
+ ?9 48 ?9' '2R8944 7* &25J:BJ2 ; 253 428 J+ 5428
' 83258 :5 428E 882 9A :9 428 .:549 38 2A2B4*
329B823 53283 5 9A E2.'2 ; G BB 8 \' &4.:9+2 ; 253
428 ; 3 4B28 ?9& +8 B25 2B ; 253'@ 6 J' 452 2 ; K
G BB 8' 52 829+2 B2 52 5 88 53 <: 53 + 82
8 3 95 25J:BJ2 ; 253 ?9' BB43 323 <2B4 3 3:9328
+28 B28 < B 428 +25329B8 ?9' 5& E 253 <: 53 42
5 @(-?'Y) ' 'LH 5J:BJ2 ; 253 428 5 5.28
2 ; G BB 8 4 58 +29B 4 ; 5 83B 3 :5' 'L 2 4 3 988'
42 & BJ253 ?9' 52 . B.9+2 <+98' &25J:BJ2 ; 253 42
+ ' . B.9+ 3 :5 I2 B23B 3 G8:+9 49 59 ; 2B B2 +2
4 82B44 3 ' < "" ' A :43 A) '
<' ' ' I :294 ?9&:5 B25.:53B2 4 58 +2 3< 3 :9
4 58 +2 8:+ 428 E2 528 42 .= BG:5 48 32BB2
' ' > '<B:E25.' 6 ' 3 + '

'Q 5*J:B*@4' 2 '<B254 95 '42E 53 '
:9 : 25J:BJ2 <3 5:98 25J:BJ2:58/ / ' 'L 6 G*
83B52B 95 .:549 3 5' < 88 J2' 28 ; : ; :54 .28
:93 25J:BJ4 .23 4J:93' 2 8 5J 25J:BJ2 3 +28
E 882 9A' ' :9+2 25J: J2 3 +2 .:9+: B'L 6 2 ; *
<+ B ; 2 4&952 < .2 4& B3 +22 'L 6 &25J:BJ23 / '
' B2 25J:BJ4 2 = EB2 .2 . 5 + 8&25J:BJ2'
$9 54 +2 39R 9 42 + ' .=2 ; 542 283 3B:< 43B: 3 + ' *
; 42 52 <:9E 53 < 882B 8&25J:BJ2
- ' # A ; 6 F' 58 G: E2 <23 3 23 8:E253 $9& +

5& 93 H ++2I +28 93B28 28 ; :E 53 '4 B2 ?92 3B:< 25
25J:BJ2 ' < ' " N" 'LA E6 3 988R +9R 4:552
H 9 9.:5I \' ; 25J 2B 3 53 ?9& + 3 25J:BJ4 :*
, ' & AAA / ' LLAE 6 8' ! 288 B2 >2 5 42 = 8*
32++28 42 # 5 9+3 .:98 5 9 .: ; 32 42 + 54B2 R
283: 3 H?9 54 :9B5282+ B .:53 ' 9 B:' = B+28 8 '
442:5E2592 25 + 54B2I ?9' 25J:BJ2: 3 H4.:93 3
25 ; 9B ; 9B 53 4 58 8 ' J:BJ2I 3:9328 +28 < B:+28 49
.=2E + 2B '5 "N' 'LAE 6 8' ' +2 89 :?9
&25J:BJ2 53 42 ?9 53 34 4&2 9 <B 582 3B:< \' .:9<
? ' &&' B
- ' (!' 5 " 23 '<B:E25^ ' '
6 '3 + '
' Q 5*J:B*@29B/ ' ' 5J:BJ29B
42 < J2:58 .2+9'?9 E2.' +28 4EB28 4:552 49
JB 5 9A < J2:58
'Q 5*J:9*4 42/ " '" 'L 6 :53
+2 J:8 2B 283 :G83B94' 5J:94 < B 428 ; :B.2 9A E *
48 J+:93:552 ; 253' NN I J' 8' 4&25J:92 ; 253'
! ; 2 42 + ' R2332 E:98 'E92 2+2 ; 2 ; 542 ?92
E:98 . 98\328 B3 2582 ; G+2 ?9&2+2 283 25J:942
42 E:98 .&283 8:5 ; :3 8cE' = '" 4EB' "NF%'
:3B2 492G2882 42 :9 J:J52 ?9 ; JB4 3:93
8:5 ; 4B 32 283 95 <29 3B:< 25J:942 42 + ' 4 582
428 G +8 23 428 ; 8. B 428 ' = ' , ' ! '
' . ' %@ 5E' "C""' &\J2 52 ; &'< 8 J94B'
42 .2 44 93 H8&4<B254B2 4&952 43942I + 52 &'< 84 *
; 594 23 ; 5325 53 ?92 @&4.B 8 .2. ; 2 E: +\
.: ; ; 2 95 E 29A B 4:329B 25J:94 4&952 93B2 43942
593 +2 : '@2 5&2532548 B 25
! 'Q 5*J:9*; 5/ ' ; 'L 6 ; G BK
B 8 4 58 +2 J:8 2B 'L 6 2B ; 2 42 ; 442. 52' G83B9.K
3 :5 4&95 .:549 3 9 4&952 . E34 ?92+.:5?92 < B
428 ; 3 4B28 ..9 ; 9+428 'L 5J:92 ; 253 4&952 =2B*
5 2 BB43 23 ..9 ; 9+ 3 :5 428 ; 3 4B28 4 58 582
53283 5 +2 ?92 .:53 253 +2 8 .'=2B5 B2 'L 2B ; 2
42 E434B 5 B2' 5J:92 ; 253 49 29 ++23 ..9 ; 9+ K
3 :5 42 ; 3 4B28 + ; 253 B28 49B. 28 ?53B2 +28 + K
; 28 42 .23 283: ; .' 5J:92 ; 253 49@ G:3 B4<+4*
3 :5 :93B42 42 .2332 <:.=2' U 6 J' 253 ; 2538
E:B G+28 23 2 .288 8 ?92 :5 .:5?:3 8 58 JB 542
B 8:5 <:9B ?92+?9&95 :9 .<2+?92 .=:82' :5 25*
J:92 ; 253 <:9B .23 :9(B J2 <:9B .2332 <2B8:552
283 2A3B4 ; 2' &25J:92 ; 2<3 49 492 42 +2B:R H<:9B
&"3 3B2 42 ; B4.= +I 49B '<+98 29B8 55428 ! '
%' NF' <<B:9E 53 444 J5 53 8 58 B2.=2B.=2.'+28
; :3 8 42 ; :5 25J:92 ; 253 :9 42 ; :5 444 5 ; *
' . # ' ' "CN% C>,/' 3' A ; <' 4 58
' :932 ; ' .B 532 24 E:R 53 .23 25J:92K
; 253 23 ; 2 8253 53 8'<29 4& JB4 ; 253 4 58 &28<B 3
<:9B +2 8:9325 B 43 3 ?9& + 52 82 .= 5J2\3 25 44*
J: 3 D' D' :988' ' ' :5 25J:92 ; 253 :93B4
<:9B :9 .253B2 3:9328 .=:828 ?9' 52 +9' <2B ; 23*
3 3 42 < B+2B 42 B 25 ?9& E2.' 428 .:5E9+8 :58
' 1' ' 52 < 422 9J 3 E2 42 . BB:5 <B:9E2 25K
.:B2 42 ?92+ 25J:92 ; 253 :5 <293 43B2 <:9B +28
.= 38 ! 4 58 " ' &283 G2 9*
.:9< <:9B .2 < R8' ' E:98 8 E2M ?92 +2 <B2 ; 2B
@:9B 283 <:9B &25J:92 ; 253 +2 82.:54 <:9B+ ' .B K
3 ?92 23 +2 3B: 8 2 ; 2 <:9B & 54 4B25.2 / '
" ' 3' <' N" 4 58 ' +2 52
@9J2 <+98 4& <B48 &2A34B 29B +28 <=B 828 23 +28 44*
; :583B 3 :58 2+2 283 J94B 2 42 &25J:92 ; 253
/ B 6# # ' & ' ' $ '3' ; +233'%F <'" F
4 58 ' & ; :9B <293 8&4J B2B 4 58 828 <B2*
; 4B28 2.3 :58 23 89B3:93 < B &449. 3 :5 + R
<9 82 428 53 8 28 23 428 25J:92 ; 2538) ' " '
8 *<' ' ' +E' E + ! '3
'Q25*J:9*4/ 9' ' LL 6 G83B92B+2 J:K
8 2B' 2 . 5 B4 E + ' 95 ; :B.2 9 3B:< JB:8 ?9'
&25J:9 'NN ' &25J:92B / ' ' 2 . 982B 95 2 ; K
G BB 8 4 58 +2 J:8 2B' 8&25J:92 \' :B.2 42 ; 5K
J2B E2.' J+:93:552B 2' $9 54 +28 <23 38 25 538 8&4*
3:9 253 \' :B.2 42 3432B E 42 ; 253 :5 4 3 ?9& +8
8&25J:9253' &25J:92B \' :B.2 42 .B 2B 42 G: B2' '
52 ; 5J2 < 8 + 44E:B2 3 +2 33 53 E 42 ; 253
$9& + 8&25J:92 :B4 5 B2 ; 253 8 ' H ' '
! ; 2 42 ! 5325:5 3B : ; <= ' B: 42 ; 253 4&2++2 H! K
4 ; 21 + ' + 88 53 8&25J:92B 42 < B+2B 42 <+29B2B
23 42 +9' <B254B2 +28 ; 58 ! ' W; ' JDF'
! .= 9 ' =' ; 8 8' @2 G29E 2 ; 28^ - ' #25B' '
&283 G 25 4 3 . B @2 ; &25J:92 0'0 ' '
* ' 5 " 'L 6 J' B2 <B 8 4&25J:92 ; 253'
! 8 ; :5 J45 2 '3:9@:9B8 @2 E:92 9'.2 9A
B 4:53 +2 G:9BJ2: 8 8&25J:92 D')' '?'C' '
' , ' + E' 'V"' 58258 G+2 ; 253 @2' ; &25J:9 6
42 .2332 <23 32 B23B 32 9' 9' ' E' :98
E2M 25.:B2 95 93B2 44 93 .&283 42 E:98 <B4E2*
5 B 23 .: ; ; 2 :5 4 3 42 :98 25J:92B \' 2A248
25 E:9B 42 .2B3 58 :9EB J28 "G '0 ' '
A ' '$> " 'L =8:+9 ; 253' 23 =: ; ; 2 8&25K
J:92 . +2 ; 253
- ' 'O I 8' 3 ; :B4: 3 J:9+9 ; 253 2* + + " 95

Y)B

=9 ; ; 2 25 8:5J2 53 28E2 <B_8 + 'E 542 23 8&25*
J:92 25 ; 5J2 53 " 'F;D
- ' (! ' "0 23 +2 B 4 . + / 5 ' ?9 ' 82 3B:9E2
4 58 / 5 ! -' QE:R' .2 ; :3/ 2BBR0 / !7 # ' 2 < 8K
8 J2 49 8258 <B:<B2 9 8258 J9B4 . :58 838 25 .2
?92 &28<B 3 283 : ..9<4 < B ?92+?92 . =:82 . : ; ; 2 +2
J:8 2B < B .2 ?9 ' &25J: 2 .&283 952 48 :50 95
; + 42 &28<B 3 . : ; ; 2 49 J:8 2B . B - / !7 - '
283 . :58 4NBN . : ; ; 2 95 3B E2B8
0 'Q 5*J:9* B20 B42/0 #
@L 6 2B49 4 58 95 J:9 B2' &25 53 3: ; G2 23 283
25J:9 BN 4 58 +2 3:BB2530 9 ' X " / ' : 'LL B
2A3258 :50 B23 B4 4 58 95 :54 ' :98 ; 5?9 :58
3:93 _ 3 42 :9BB J280 :B3 25J:9 B48 253B2 +28
429A . ; <8 23 ..9+48 9 = 50 ! ' U F '
' ' $9 ' 82 <B4 . < 32 . : ; ; 2 4 58 95 J:9 B20 25
< B+ 53 428 2 9A 23 49 E253 &283 ' 49 . :BG2 9
?9 ' 8& G 3 & JB2 .B: 882 ; 2530 28 93 58 25J:9 *
B'8 +2 3B 832 8 +2 ; 2530 ' ! ' 5 0 " "N
N 'Q &/ Q 5*J:9* B 2/0 ' # ' L]' : ; *
G2B 4 58 95 J:9 B2' LL B 2A3258 :50 82 B23 B2B
4 58 952 <B: :542 B23B 32 :3B2 53234 8&25 B '
:938 B449 32 25 8 ' <258420 &25J:9 B2B + ' 3N32
G 88 2 58 ?92+?92 . :5E253 B4 :B ; 40 ' ! & '
" 5 ' 1<75# ' 3 ' E50 < ' " 0 4 58 'LL ' 82
4 3 428 . :9B 538 4&2 9 :9 4& B ?9 ' < 523B253 4 58
952 8:B38 42 J:9 B2 2 =452 8&25J:9 B2 9 + 29
4 3 + ' 2B+2 49 =N520 23 B2< B 33 95 ?9 B3 42 + 292
<+98 +: 5 ' 2 E253 8&25J:9 B 3 4 58 + ' .=2 ; 542
58 .2 ; : ; 2530 952 ; :53 J52 4&2 9 4&952 2 *
B:R G+2 JB 5429B 8&25J:9 B '253B2 & +2 4& ; GB2 23
+ ' . 320 ' ' * 0 ' ' ' <' "FF' ' 2
= ++:58 : + 8&25J:9 B2 + 'G 820 &283 49 < 5 ?9&2+2
33254 42 5:980 ' 0 75 ' ' 28 E2538
25 8&2:J:9 B 53 8:98 .28 E 8328 44GB 80 5 3 B253
428 8:9< B80 428 =9B+2 ; 2538 0 428 .B 80 6
C " '50 ' ' J ' $92 42 :B39528 E 255253 8&25K
J:9 B2B 4 58+28@29A42 G:9B82 LL F ' ' : ' 5J:9 *
B2B0 B8 3: ; G2B0 B8 4 8< B +3B2 4 5895J:9 B2'
_:5 : ; GB2 <+ 52 25. :B 89B 3 53 4&=: ; ; 28 89GG ; 28
$9& G:9\ B 25J:9 B '4 58828 5J+ 538 G+ ; 280
'4 58 " ' 'LL ' :B ; 2
.3 E2 5&283 < 8 4:5542 < B & . 44 ; 2 ; 8 B 25
5&2 ; <4.=2 42 8&2 '82BE B
- ' # 'S 6 8 2?9:R 4:52 E:98 <B: +32* + 42
E:98 25J:9 B2B < B E:83B2 .9B :8 34 25B J42 25 .283
GR ; 2 9 - 'CN" 5 . : ; G 25 42 <2B +8 23
4 5J+2B8 5:98 + 258 25J:9+ 2B0 < B 95J .=2 ; 5
283B: .3 42 8:' + 2928 42 +:5J0 ! ' 9 J; '
&283* + 4:52 < 8 G 25 ; 82B G+20 2+9R ?9 '283 5K
8 3 G+2 & ; :5.2+2B &:B 428898 &:B0 9 ?9 0 8:9*
+ 53 8:5 E B .20 &25J:9 B20 :' 3B:< 283B 5J2 E .20
24 58 & G 8 ; 2 4&95 3B28:B ' C ' :4*
' <' ""70 4 58 'E2B 34 283 25J:9 B42
4 58 428 <B: :548 GR8 ; 28 : 3 + 'E292 G9 ; 52 52
<29+3 <2523B2B0 ' ' "C
' >^5 "0 23 / !7 #
% N > 'Q 5*J:9*@9*B&/0 I ' 2B ; 8 42 ; K
B 52 ' :B32 42 B 59B2 <B 3 ?942 25 3B E2B80 8:98 +28
. 8828 428 ; _38 42 G952 23 42 <2BB:?9230 <:9B B2*
.2E: B +2 GB J923
% 0 'Q 5*J:9*+ 50 + 5*3&/0 ";'
2B ; 8 42 G+ 8:5 2 4 3 4&95 5 ; + ?9 '283 B2<B4*
82534 25J+:93 88 53 4 58 8 'J929+2 952< G.2 428 B*
; : B 28
c0 c 'Q 5*J:9*+40 42/0 # '
6 8 ' < B 952 J929+2 2 <:988 5 25J:9+2 < B
+2 . 25 LL ' 2B ; 2 42 G+ 8:5 2 4 3 428 < 4228 4:53
+28 2A3B4 ; 348 253B253 4 58 428 J929+28 4& 5 9A
- ' # 'S 6 8 3 +2 428 B ; 253 + ' <B 5.2 23 + '
.= 84 2 8:5 G+ 93 :3 2B ; 5 H&=2B ; 52I 25J:9+4
H4 8<:84 93:9B 42 &:9E2B39B2 <:9B +2 < 88 J2 49
. :9I 5 59+2 32BB2 5&:3 <+98 G2+ 428 B ; 40 D ! 7 '
" '1 'M 'LL A 96 8 &:3 E2839 95 B:9J2 983 5*
J520 ! 48 ?92 < B +298 2B3 423B:92M 53B2 +2 . : +
2B3 25J:9+2M &952 + 832 3B283:32 G+ 5 . =20 . - 'CN
N 'Q 5*J:9*+4/0 5 ' ' 8 B ' <+2 52
J929+2 2 .= 25 25J:9+2 3:93 .2 ?9&95 +9 '@2332
- ' # 0A 56 8 5 .2832 32BB2 5& ' ; 83 5 $9 ' ; 2
B28. :88 3 H ; & 3 3I 95 < : . 50 :B ?92 @2 &2$882 25*
J:+ 0 . - ' " " 2 G:B3 49 G25 < 3B:< 5&25J:9+2
' . : ; ; 2 :53 ; 5328 5:BB .28 $9 ' . ! '
" N"N' B + '4:9. :B 8 :B3 28 G:9+2 H3B: ; <2I0 $9& +
5&283 598H59+I ?9 '3 5325 25J:9+20 $9& +5&25 E92 +2
<+98 25J:9+2B0 3G 'N "F ' LL AE 6 8 2 +R:5 @233 '8 '
JB 2 89B 952 42 J42 42 4:9M2 58 :9 25E B:50
23 & 32BB '.2 30 25J:9+ '8 ' 328320 23 E2. ' +28
42538 +9R 83 <+98 29B8 <+ R280 o ' E ; 0 "
' <-'4' 23 / !7 '952 428 5. 25528 :BK
; 28 42 / 7 7 3 <B:E25. ' - / ! # ' - / 7 #3 28
< J5 - / 7 #
j ' Q 5*J:9*+2*E 5/0 ' ' 25B2
4& : 82 9A 4:53 &28<G.2 + '<+98 . : ; ; 952 283 E9+J *

'"+"/% 044"&#" 2'04O!# .*&O/%(* " , ' , '
" , 'W5
X ?' > , '"% / ' 0-/(-#-% 40'2" , !"
2"% *-("O!'0 ! / ; "" , !-(!*! .'" #/*'+#+*"/%
' DO/@7*!'@#-' #-"E' " ' "
#!"/7*!'#-' ' NN F O-(- #!"/7*!'#-(("+"/%' ?O-/(
"/7*!'#-"(40" &" $'*-# ' */ ' / * / ' (- (O/(&" $"
2" ;'0("(% "/7*!'#- ' + ' M
0" #" 26O(%"(;O-("'(' #O/((*/ 4-"! :'%'O/(4*%
' 'O/-+O-% + */ 2/"! " "/7*!'#- 40" &O + *'%' / !@
O('C* ' . ' U / O-7&*/J */% !2"-&O(4-'" '(O
(4; '" % , !-'O+4" (!" &O%''" *++" ! / '"4K
%-&" "/7*!'#-' ' / Y NN "'+" #"
+O'-/" O.-'" "/7*!'#-' /O.-'" , !- 4O'O&% -++*K
;-&" O! +-&-"!#!!/" 7'*(("+"' "! !(-%#' NN -7'
!O.*-" 4O(&"(+O-/("/7*!'#-"(' %" 6O;-&" '4'"/K
#"' ' .*&"' ' *!(+" %'*!."< !O-"#!! / $'-4*/ , !-
/!O!'O 4O(&"(+O-/("/7*!'#-"(4*!" "+4*"%"
O'7"/% #!!/" +O-(*/'
f 4O'%-" NN I -7' / "(4'-%"/7*!'#-' O 2*+4*(-K
%-*/ " / "(% 4"(O/%" "% "/7*!'#-" ' # '
' AMR' >, / '% : + '4') ' #O/(4*!* (
' DO/@7*!'@#-'E' P ' NN F O!("
#O/(! / + " + ; '" ! / " (*'%" #" 4O'O&8(-" ++" + "/%O@
/#" -/2*+4& %"' " $'*-# "/7*!'#-% &"(+"+ ; '"('
O%*:4-&&" "/7*!'#-% &O +O-/ #" 2"! - , !- &O %*!@
26"/%' / 4"/% 2*+4O'""&"(+O&6"!'"!("(4'*#!2K
%-*/(#" 2"%%" "(4 2" '2"(9*!'(O$$-7"O/%(#" !6-@
."'' *# ! / ;'*!-&&O'# 4O-(9*-/% ' ! / " 7"& "
4 / %'O/%"'(" + ; &" &O $*-("/7*!'#-" "% 2*/%-(%"
%*!(&"(%" " -.O/%(? ' ' G1 '
S" ;O-(" ;-"/ %" /#""+"/% .*(4O%%" ' "% (-'9" &"(
":6*'%" ' / "(&O-(("" / - ; '#&"' ' / - "/7*!'#-" "
= ' ' 3 ' " **%' OO ' * J -7' !*-(-.'"%'
"/7*!'#-% !"(4'-% ' ("4'"/O-% '%*!% 2" , !-4*!.O-%
"/7*!'#-" (*/ -+4O%-"/2" ' 2 '
' YF !"/7*!'#-''P' ' "."/-" "/7*!'#-' " &*-"
(!"/7*!'#-% 4"/#O/% !;-."'' "(+"+ ; '"(4!-((
(!"/7*!'#-(("/% "% &" 2*!'(#! $&"!.' !"/%'O&/"
+ ' 9 ' ! ?O-/%"/O/%9"' +!"/7*!'#-(O.2&O /OK
%!'"9!(, !!'2", !!"&&" '/O-(("9" /" .-(4&!(O'9
' = ' ' # , ' ' " '%'. -'4' '
#O/(' NN -7' *!(.*!("/7*!'#-(("<#O/(&"
'"4*(' / 4"/% 6O;-$!#" ' $& 26-"2*++"" 2"&&"
#" +O'26"'5 "% +! '"/7*!'#-% "%(/ '".'"2*++"
&" 2*'4(#O/(! / " (%!4-#" -/#*&"/2"' '
' >, / '% . / '4' '#O/(
' ' :+! ' (' " ("4"< *!%%*'"" ;-&" "!%&"("4-#"(
%*'%O(J ' / "$("/7!-(' ' ' ' ' ' . ')YA
F o (' % / " $!(("/% &O(26"(/ " "/7*!'#-(' ?O-(
$*'(' "% 4'" ! : ' "% ' 26-'"" ;O'#-"'
O ' +((' O R' #O/('NNO.-I (-" / "(%
'4'"(!+" , !" ;O'O+'/# 4'"+-'"+"/%' 4!-((*/
(!2"(("! " &*#-*/ ' .*8O/% !"+4-'" "/ ' % &" #"(*'#"'
/ " #"+"!'*-"/% 2" 4" +4(""+4(4"/%"' 7"/%-'#"(
M4 " ' #O/(&" ! ' ' '
'f ?'> ' % , '4'*."6, '
'DO/H*!'@#-@("@+O/E' '
F d *'%" &-" 4O'O&8(-" ++*+"/%O/ " 2O!(" 4O" &"
$'*-# *!'!/" O!%"'2O!("' % , !-'"(%2O'2% '-(" 4O"
&O 4"(O/%"!'&O #-$$-2!&% *-+(" ! / + &*'&" ' / / "(%
+-&&"+"/% -/2*++*#"" .*-' ! / " / "/7*!'#-"(("+"/%
O!' ;O(' NN '(" #-%O!(-#!!/% %O% , !-'"/# &"(O@
2! (*;%!("(2*++*#"" 4O" ! / #"+-&(*++"-&' /
"/7*!'#-("+"/% %%O-(*&O +! %O 9!(, !!'"$%O2O!&% #"
4O'&" " '% #" 4"/#'"' 4ZJ ' #"&" "% 9
% / ' &"%%% YB 4 ' YM ' #O/(' NN ' " #-%
"/$&/ " / "!O% *-&" "'" +-(" 4!-(' 2O-(/"/ O/-+O-!
/O/%($O!% (O.*-" 7" ' ?' #" !$$*!#!O.*-"'"@
26"26 '& 4"+-"'&O 2O!(" "2" %" #" ! / "/7*!'#-"(@
("+"/%#"#-."(O/-+O!:'%" "&(, !" &O +O'*%%" &"
6 -((*/ ' & &-' ' &O 26O!."@("!'-(6-;'"
' / *%' ' f 4O'%" 26' Y NN F -7' *'4"! '
!"/7*!'#-(("+"/%#"#" !"(4'-% ' -"'" , !"&, !!! / #"
(* "/7*!'#-(("+"/% / #-% !!-& 8 ' %"/-#O/(%O!%
2"+*! . "+"/% / 4" !"#" !"/7*!'#-(("+"/% , !- (!-%
!/ &*"/ "4*(/ ' (*!O ' ' ' . " '-:'
?'>
$ ' 'DO/@7'-/E' ' ' -("O!' , !-'4'O@
%-, !' ' ! / '" +"!&" ("% '"/707"' #"(*!'(& " (+O@
&- '"(, !-#*-."/%/% ["";'*8 "(
' ?' *8'
%' ' DO/@7'-/E' ' ' "' + '" ' !'O&'
*!%" ("+" / "/2"$O-%"'"/ 2 ' O&"(
' ' :-I ' ' !O26O%"!'("'O4O8" #"("('O-'! '"(
U&O; *!'O7"(J' ("+"/2"("/ "/7'O-/(' (!-& / !O &"(
$'!-2%(' ' ' ' '4'
' ?' / ' "%
%' ? DO/@7' @/"@+O/E' ' ' *8'
$ 'DO/@7' @/ E' / ' ' *8'
' DO/@7' ' ((" &-"' / ' O/@7' @<":2"&K
&" /%E' (' + ' ' I %!'", !!*/#*/"' O!:'.*&O-&&"(

<:9B +28 25JB 882B'LL#233B2 ' &25JB 80 82 4 3 428
G283 9A ?92 &:5 ; 23 4 58 +28 =2BG J28 <:9B ?9& +8
8&R 25JB 88253 &283 :B4 5 B2 ; 253 ' & J2 42 4 A
58 ?9&:5 ; 23 +28 G:29 8 ' &25JB 80 229
' 6 :93 .2 ?9 0 4 <:8 ' '+ ' 89B .2 49 8: + 23
; + ' '+ '32BB2 B G+20 9J ; 2532 :9 B 3 G+3 + ' +
. :54 3 0 25 +9 ' :9B5 88 53 +28 ; 3 B28 :BJ : ?928
:9 ; 5 B +28 5 .288 B28 '+ 'E2J 3 3:5 '8:9*
; 3 & B3 428 25JB 8 ' 428 <B 5. <28 :54 8 89B + '
8 52 <=R8 ?920 " ' 7& ' E + 42
9= ; 2+0 89B<B252M 828 82.B238 :55 882M0 2 ; *
<+:R2M B3 . :54 428 25JB 80 " ' K!#- ' '
(& ' .= ' 5 ' ' 5JB 8 5:B ; +0 9 ; 2B 42 2B ; 2<B:*
49 3 < B 952 <B:<:B3 :5 42 ' .G2E 9A0 8: 'G:29 8
:9 E .=280 " ' ' ' <:B280 58 ' 4 3 < B R25 23
:988 5J 9+30 < B.2 ?92 .2 9 ; 2B+29B 82B3 42 3R<20
23 ?920 4 58 +29B8 B2.=2B.=28 . : ; < ' 3 E280 +8
A253 8 'E +29B :9 828 2 238 ' 'LL 5JB 8 4 8 5*
2.3 0 4 3 8:9E253 988 ' 25JB 8 =9 ; 50 ; + 5J2
4&2A.B ; 2538 =9 ; 580 42<:94B23320 E2. ' +2.= B*
G:5 :9 E2. ' +2 32BB2 9 . BG:5 8 'LL 5JB 8 + ; 540
5 : ; '4:55 ' ' + ' ; 3 B2 428 :8828 4& 8 5 .2 ; 82
25 . 32B52 23 ; + 5J 2 E2. ' 952 .2B3 52 <B:<:B3 :5
4&2 9 ?9 ' 25 3 95 25JB 8 + ?9 42 'Q' 5JB 8 E2B3#
5 : ; '4:55 ' 9A 3 J280 29 +28 :9 528 428 E J *
3 9A =2BG . 8 8< . +2 ; 253 .9+3 E 8 <:9B 82BE .2 42
9 ; 9B20 32+8 ?92 +9< 50 . :+M 0 82 J+20 23.? :5 +2825*
:9 3 4 58 + '32BB20 +8 R<:9BB 88253 23 + ' 2B3 + 8253
' 5JB 8 ; A3280 25JB 8 :B ; 8 42 89G83 5.28 ; K
5 B +28 88 ; + G+28 < B +28<+ 53280 23 42 ; 3 B28
:BJ 5 ?928
- ' # 'O I'8 ' 28 G:29 8 4&25JB 8 H42 G:9.=2B 2I0
' 'Y)A ' 58 33254B2 ?92 &:5 +28 . - / (%
= .=28 25 < 2.28 . : ; ; 2 ; ; :93:580 <B 8 ?92 :5
+28 9B: 3 +:5J92 ; 253 325338 25 ; 292 ' &25JB 80
? '? / ' '1A! 'M)
- ' (! ' :R '
3 'Q 5 'B *8 *@&/0 ' ' .3 :5 4&25*
JB 882B +28 G283 9A 29 983
' ' <-/# #
0 'Q 5*JB *8 50 8 5*3&/0 ";'
$9 25JB 882'LL $9 '3 .=2 42 JB 882 ' <: ; ; 42
283 3B:< 25JB 88 5320 8 E ' N
0 c ' Q 5*JB *8 0 8 2/0 # '
' ' 2549 JB 8 23 25 53 25JB 88 '42<9 8 ?92 @2
52 & 'E9 28 3B:9<2 9A 25JB 88 8 4 58 .28 G2 9A
< 39B J280 " ' - " ' E 'LL B 2A3258 :5
28 ; :38 <+2 58 42 &:5.3 :5 ; E 52 :< B253 82.B 32*
; 253 :5 8&25 5:9BB 30 & ; 2 2528325JB 88 20 # '
3 'AE 0 < ' " 7 ' ' J 28 .= ; <8 25JB 88 8 49 8 5J
42 5:8 8:+4 38 'LL ' J 5B .= '>&283 ; 2 93 53 *
3B9 ; 2 ; 2 4 58 & 54 J25.2 $9&95 . : ; ; 8 25JB 88 '
428 ; +=29B8 42 + ' B 5.20 :50 'E
! 'Q 5*JB *82* ; 5/0 ' 'LL 6 .K
3 :5 4&25JB 882B ' &25JB 882 ; 253 428 G283 9A
3 3 3 42 .2+9 '?9 '25JB 882 'LL 6 R5:5R ; 2 4&25K
JB 8 ' !233B2 428 25JB 882 ; 2538 '+ '32BB2 ' 52
93 ?92 42 + J2B8 25JB 882 ; 25380 $
0 4 58 # 'LL 0 2B ; 2 42 := B<2532B 2 '>: 5*
4B2 49 G: 8 < B 25JB 882 ; 2530 & 882 ; G+2B ' :B.20
23 42 ; 5 B2 ?9& + 5&R B2832 9.95 E 42
- ' 'O I 8 '0 3 +28 5:9B 88: 3*:5 H+28 J+ 4+ *
329B8I E2. ' .23 25JB 882 ; 2530 5 ?9& +8 .=23 88253
+29B JB 882 < B +29B ; :B30 "G '1! - ' / 'B ' 3 82B:53
.28 + 29A 88 8 25 32832 428 <B B 280 5 ?92 +28 25*
JB 882 ; 258 8 E9 4253 < B +28 <+9 280 : ' " '
" 2 3B:< 42 E 2 ++2882 B28 832 ' &25JB 882 ; 253
428 G:09 80 5U 7N
' ' <-/# #'3 , - ' - / # & - 3
5. ' . 3 - / # - 3 3 + - / # - !
'Q25*JB *8 / 0 W ' : ' # 0 B2 42*
E25 B JB ' 5JB 882B 428 < :9+2380 428 . : . =:580
428 G283 9A ' 5&R 25 ' ?92 3B:< 42 .2 . B .3 B2
4 58 +2 8 +2 ; ' 5:98 8: ; ; 28 ?9 ' 52 82 ; G+253
E EB2 ?92 <:9B 5:9BB B 23 25JB 882B +29B . :B<80
' N6 " ' # ' 'O - ' ! - '3 0 4 ' "
$92 8:58*5:980 .=B 3 2580 ?92 8:58*5:98 9K
3B2 .=:820 +:B8?92 5:98 + 33258 5:3B2 . :B<80 ?92
4& ..B:33B2 + '<B: 2 42 + ' ; :B30 +9 ' 25B .= B 8:5 G9*
3 50 +9 '25JB 882B 8 'E .3 ; 2 ' # 7- ' "7'0 '
D!7#/! - / ' : ; ; 2 428 E .3 ; 28 ?9&:5 25JB 882 23
?9&:5 :B52 42 +29B80 'C '@!7 'LL 6 5*
49 B2 4095 . :B<8 JB 8 ' $92 &=9 +2 49 < .=29B 52
< B 9 ; 2 23 5&25JB 882 <: 53 ; ' 320 C 'D '
7 ' 1 '9 ' 'LL :9 +28 42 JB 882 ' 5JB 882B
828= G 38 ' 9@:9B4&=9 ' :5 4 3<+9343 JB 882B'QLF6 5K
JB 882B 428 32BB280 +29B 4:552B 42 &25JB 8 ' 28
3B:9<2 9A 82BE 53 ' 25JB 882B +28 . ; < J5280 6
' , 'B ' 58 ' +28 3:BB2538 25JB 988253 +28
E ++:58 42 + ' 89G83 5.2 428 ; :53 J528 B E J 280
'K ' & ' 'F ' "6 J 254B2 B .=2 '
& ; 32 <: 53 .28 :98 4:53 + '8:332 E B .2 ' 42
828 B2E2598 25JB 882B + '@983 .20 :5 ' * '

?0 4"-/" "% +*/ #"!-& /7'0-(("/% #"(%8'0/(
1+(*&"/2" "% 1*'7!"-&' ' Y)'NMI "'+"#"
+#%0&&!'7-"' /7'0-(("'&"$"!'#*//""0!'&0-%-"'4&!(
#"2*/(-(%0/2"'NN "'+"#" 260'4"/%"'-"' /7'0-(("
0'#%" #!!/" 4-M2" #" ;*-(' 1"&0'7-" "/ #-+-/!0/%
&0 4*-/%"' ' "'+" #" 4*%"'-"' '*((-" &0 ;0(" #"
2"'%0-/"(4-#2"("/ 8 0 9*!%0/%#"((0-&&-"(' 0$-/ ,!"
&0 4-#*"' 4!-((" (*'%-"# ' +*!&"' NN MH 3' ' "."/-"
7'0(' 4'"/#'"#" "+;*/4*-/%' ' "/7'0-((" # .!"
#1*"-&' ' ' "/7'0-((" #" +0% 0.*-'' G("(%@e@#-'" -& ("
4*'%" ;-"/ +0&7'# &"(%'-;!&0%-*/(,!!-& "((!-"'
T' -7' '"/7'0-((" #" +0&"#-2%-*/('2!"(%@;@#-'" %*!%
-!-'4'*(4#'" +0&7'# &"(+0&"#-2%-*/(,/-(1"&#."/%
2*/%'" &!-'NN "'+" #" 2*/(%'!2%-*/' /'#-% ,!!!/"
4-"'"" "/7'0-((" ,!0/# "&&"$--%' #!!/'2#%M' !/'0/K
7&" ;-"/ *!."%'NNW[1"/7'0-((" ' '#&' "."/-"
7'0(' &"' 4*'" Y (1"/7'0-(("" 2*#%"'0 4"!'#" (*/'
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;'-&&0/%(#" (0/%# 1"/7'0-((0-"/% #!!/" &*/7!" "%
(0-/% *-(-."%"' '&!%/ /'%' S044'-("/2"%%"' *2K
20(-*/ ,!"'&"(;";-((1"/7%0-(("/% #1-!%0/% 4&!(
,!!"&&"(;*-."/%#0.0/%07"' '& * '26'R)'
-7' 1"/'-";-'' U J (1"/7'0-((" #!'%'0.0-& "%#"&0
(!;(%0/2" #"(40!."(' $-2/'-' % /7'0-(("@
%*-' +*/'$-&('#%%(!2#"(+0&;"!'"!:'(*/ '# ' .-!'
(%@2" -' !/ 2-%*8"/ -% (1"/7'0-((" #"('"(%"(#!
(0/7 #!/'0!%'"2-%*8"/3 9 '= , 'B-' ' *!(@
$"'+-"'" #"(6#4-%0!:' ,!-(1#%0-% "/7'0-((# "/ +"%@
%0/% &"((*&#0%(;&"((#([&0 #-#%"' -/' $% ' ,7 *
#2!(*>' ' / * , A , '@BF 1#40-((-' "/
40'&0/%#!!/" &-,!"!'' "% "+4&*-0 ."-&&-'NN " .-/
(1"/7'0-((" -& ((7-%" / #-% 4&!%#%0!94!"#!;!-' '-&
#".-"/% 7'0(EN '*."";"' 1*"-&#!' +0-%'" "/7'0-(("
&" 6".0-' "1"(%@[@#-'" ,!0/# &" +0%%" .0.*-" (*!@
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(*-#5 "%$-7' ,!0/#*/'(!'."-&&"(*-@+#+" "((0$$0-K
'"(' -& /18 0 40(#" 2*!&07"' #"#-&04-#0%-*/' NN /
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&"(#*-7%(' "1"(%@[@#-'"*/ /"(0!'0-% +0/-"";"0!2*!4
#!0'7"/%'(0/(,!!-&'#"#+"!'"#0/(&"(+0-/('"$&%'"
#0/(2"'%0-/"(0$$0-'"(' (0/(8 $0-'"#"(4'*$-%(
J 8' 2 .2+2 .= ;GB2 882 3 0 9B2
H=2 B2I 42 ; 5J 2B0 2 ; 2 <9B 895 .:B8 2 ;<+B
52 25.B2 88 2B0 ! 8 <9B .2 ?9&+ E:+2 3 8' ; 85 2
= 3 2B0 28 <:EB28 ;2+2:8 E22 B 2 8 2B0 ,&'
' 3:8' L 9B ?:' 953 N8 .B9328 H2 E2 9AI 25"
32BB4 2 ;9: \ ! 8 <B ;28 953 +28 4B 8 2 +2 .:B8
393 :2BJ 2 H :9 ++\I ! 8 52 &953 < 8 3B EN 38 52
25.B 88 \0 ! 8 42 8 53 8 ;2 = G 3 2 E2839 .' .= B"
J 40 1 ' NN S 6 8 53 ;&:53 ; + 3 2325J "
J5 2M0 92 + 25 8253 39 3 25JB A 2M0 0 , '
/ ' 4 58 = 1 '" '<' ^3' +?9' 42 ; + B2
8&25JB2882530 '< 'N"F ' 3 ?92 598 59+I 5& 3
<:B.2+ 424258 +28 ;9B80 52 5.B 882 52 25.B 882
<+98 42 =9 3 @:B80 '<*, '<' C7'LLAE6 8'
+.: ;32 42 +: 8 23 8 2 ;2 5&283: 253 < 8 3 +48
5 <B:<:B3 : ;48 \ 25J254B2B @ ; 8 25 58 . B0
< B G 25 G: B2 23 :B3 ; 5J2B 4:9.28 23 42+2.3 G+28
E 54280 +8 283: 253 ; +2 ;253 :B3 25JB +88\80
88 +30 E0 N' AE 6 8 28 32BB28 +G:9B G+28
8&25JB288253 42 32+28 <:9BB 39B280 'A ,
YA' -.*!(5&28328 25 G:5 <: 5.3 $92+?92 @:9B
25JB2882B2M0 ' @ 0
' ?' -20'# * '.%'0&&*/' /0@
+!'' ,* '4'*."/2' '
0/2'20%0&' '"(407/'? '4*'%!7'
7 '-%0&' 5#!'&0%-/' * '#"
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%' S' D0/@7'[@("!'E' ' ' "&/-,!-
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";"("/7'0/7["(
%' ? 'D0/@7'0/@9"@+0/E' (' +' 2K
%-*/ #" ("'"'"&"(;&[(#0/(&0 7'0/7"
? = 'D0/@7'0/@9[' " '4'"/#!/ '#".0/%
'*!' #5 91"/7'0/7"0-' "/7'0/7"*/(E' /' ' "''"'
#0/(!/" 7'0/7" /7'0/7"" !/" '[2*&%"'NN ;(*&!@
@+"/%' '" %"+4("(%%'[(@;"0!' ;[%"<@.*!(#!"/@
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' O I (' % "/2*'" &" /*!'-%""&!-,!-&0
+"'" "/7'0/7"0 U&*7"0 "/ 0;("/2" #" /*%'" #-%
7"/%-6*++"' '1 '< F ':/
' '<-' '/# -/
%' 'D0/@7'#@ E'(' ' *+'#" 10/*6*-(
H 'D0/@7' @&-(19' ' " ' *+' +*#"/"
#!'7"/'"0/26*-('#0/('&",!"&*/'#-(%-/7!" 1"/7'0!&-(
.!&70-'"'2*//!'(*!('&"/*+' #10/26*-(' 1"/7'0!&-(
+[&"%%"' #-%.!&70-'" +"/%+[&"%%"' + [&"% "% /0#"&&"'
#
9 ' 'D0/@7'0@.[' .["E' " '"
' I ''[%[40"&" (0;&" #0/(!/' "*!'(#!"0!' '9!%"
2*++" !/ +0'-/-"" "/7-0.[' "0"0!:'U#"&0 *-"J

8253 8 'G 88280 23 @2 89 8 8'8:9E253 25JB E\2 ?92@2
B2JB2332 ; :5 \?9 < J2 ?9 52 8& BB\32 <: 53 23 ?9
E' 8:5 3B 50 8cE' 8' 52 E283 +2 ; 23 \ +:3 95
JB:8 E 882 9 25JB E\ 25 +2 3 B 53 E2.'8'.2 539B20
'0 '& 'A !#' 'LL 6 2B;2 42 .= 882
:53 +28 :5J+28 8:53 G+288\8 < B +2 8 G+2 = 25 25K
JB E\
' Q 5*JB *E\2/0 8 [+ 2B;2 42 E\3\B
5 B2 ! + 4 2 49 <+24 428 4 4 .3R+28 :5 &:G82BE2
89B +28 G.29 8 ?9 3B E +253 25 428 32BB 58 49B80
J B5 8 42 . +:9A
' '<-' ' 23 /# 5'B 4 . +42 /# 5 #QE:R'
.2 ; :3/
! 'Q 5*JB *E2*; 5/0 ' ;'LL 6 3 3
4&95 G 32 90 4&95 3B 5 42 G: 8 25JB E\'L@ ' 58
G+2 ;253' 28 4\<25828 ' 4:53 +2 B23 B4 <:9BB 3
\3B2 <B\@94 . G+20 .: ; ;2 +'B\< B 3 :5 4&95 <:530
+2 42G+ ' 4&95 25JB E2 ;2530 8 ' ' ' (! '
" '? - '23.' A0 F3C0 <' VNF
V' ' Q 5*JB *E\/0 ' ' # 6 5J J2B
952 2 ;G B. 3 :5 4 58 +2 8 G+20 +'E 82 LL 6 2B;2
42 ; B 52 5JB E2B 428 93 ++280 +2825 :5.2B 4 58
+2 +283 ?9' 283 \ :54 42 . +2 L 6 58 G+2B :38
4&952 B9<39B2 49 :88\ 42 B <:520 ?9 2 ;<:B3 23
25JB E' 952 32BB2 2582 ;25.\2 42 G+\0 <<5 0
42 '(! ' " '? - '23.' A0 V8VC0 <' M
'"]'$'-' ' .= +:9<2 25JB E' 'LL 6 &25JB E2B0
3/ # ' &25J J2B 4 58 +2 8 G+2 :3B2 G 32 9 8&283
25JB E\' + R' '3B2532 +2928 42 9 ;9B \ 5328
5:98 E:58 B\8:+9 42 +28 B2 25 429A @:9B80 23
4& BB E2B 9@:9B4&=9' \ 5328 4 58 .2 42882 50
5:98 ++\ ;28 G 2B 429A =29B28 42 59 3 5:98 5:98
25JB E\ ;280 23 5:98 42 ;29B_ ;28 \ 429A .2538 < 8
42 5:3B2 = 32+2B 2 8 58 <:9E:B G:B42B0 8\E' VB
' '<-' ' 23 +2 B 4 . + /# 5 '?9' 283 4 58
/# 5 # QE:R' .2 ; :3/ 2BBR0 /# 5 #3 <B:E25?'
-/# 5 #
! J ,'Q 5*JB *E\/0 E' ' LL 6 B E2B
89B' >&29882 25JB E\ *= 93 +29B =:532 23 E:3B2
J+: B20 0 O ' B 98 3 4B28828 95 3R<2
42 <2B.2 23 R 3 25JB E2B 428 +233B280 ' ' '
90 ' ' 6 2B;2 42 .:583B9.3 :5 53 ++2B +2
<+: ;G 4&952 J:933 \B20 4&952 +9. ;2 HL +:92B
&2A3B\ ; 3\ 4&952 G 542 42 <+: ;G 89B 952 93B2 :9
89B +2 < 24 4&95 <:32 9
-'# 'S 6 B:8@ 8<28 E2B48 25JB E2M0 23
3 +2M 25 4B .:580 'H #/' 0 ' 28 4 8.: B80
5:98 52 +28 <:B3 :538 < 8 8233+2 ;253 25 + 'G:9.=20
; 8 25JB E2M G 25 E\53 9 .:89B0 ! 0 E0 C
' 5 V0 23 /# 5 #
% 'D0/@7'0@. @'1E0 8' ' L 6 [(!&@
%0%#" 02%-*/ #1"/7'0."''"%'40"":%"/(-*/' 02%-*/
"&&"@+[+"' NN I "'+"#" 2*/(%'!2%-*/' 044" #"
4&*+;'"+4&*8"" [&0 2*!."'%!"
-'# 'S 6 8' ! 83B28 42 H= G+2 25I :B R2B 20
242<:B3B 39B20 2 422 JB E9B20 2 42 +3B\8 25J 5M0
:80 % 'S 6 8' :5 <: J5 53 3B 3 ;&' JB E\
4 58 +2 .329B 28 429A G2 9A 5: ;8 42E:98 23 E:83B2
8:25B 38 E 53 8&283 ; 82 &25JB E29B\ $92 <:9B
@ ; 8 R 42 ;29B2B 8& 8829B20 ' ' ' 0!
' M 0 4 58
-' (!'<-/# 5 #
0 'Q 5*JB*+\0 \2/0 ";' 2B;2 42
G+ 8:5 + 82 4 3 42 .2B3 528 <\228 G:5:B G+28 42
&\.90 ?9 8:53\ <23 328 42538 :B3 ;259280 4:53 +28
.\3\8 8& BB:54 88253 ;'<29 .2 ?9 4 83 5J92 25"
JB\+\ 42 42532+\ + <:B32 4&:B \+'.B: A 25JB\+\2 42
J929+28 + <:B32 42 8 G+2 9 .=2EB:5 25JB\+\ 4& BK
J253
-' (!' W V0 23 /#@ '8' +28 42532+9B28 \3 53
.: ;<B\28 \ 428 JB 58 42 JB\+20 \ . 982 ?92 +28
.\3\8 25 8:53 BB:54 8
3 + 'Q 5*JB*+\/0 5' ' !233B2 952 25"
JB\+9B2 \ 952 42532+2
!J , -,'Q 5*JB*+9*B&/0 ' ' LL 6 2B;2 42
! 8:5' :B49B2 25JB\+\2 IL ' 8<\22 42 42532+2
4&95 42 ; *.253 ;\3B2 42 + BJ29B0 :B; 53 95 @:9B
\ 42538 J9\8 B <<B:.=\28 23 \J +280 4:53 .= ?92
<: 532 283 ; 532592 < B 55 +?9 3843+2 G:B4 2+2
82B3 25 + 5J2B 2 < :9B 428 @:9B80 23 988' 5 + '.:94
9 G 8 428 42532+28 <:9B 25 B2 +2 < 24 LL ; ;'428
42538 42 < 882 ;253 QE:R' !G' LL 28 ; :4 8328 23
+28 2 ; ;28 <B:5:5.253 25JB2+9B2
' '<-/#
'Q 5*JB2*5 *9&/0 ' ' 8<:8 3 :5 42
B:928 ?9 8&25JB\5253 LL 2B;2 42 ; B 52 BB
; J2 4&952 G BB ?920 4&95 :9. 940 23.' 4 58 5
E 42 42 + ' . +2 8<:8 3 :5 42 G BB ?928 5 +:J92 \
.2+2 428 < +28 42 G:9+238
' '<-/# - #
3 0 Q 9*JB2*5W 0 5 5*3/0' ";'
$9 25JB\52 :9225JB25 532
'# $ ' >

1K !J , ! ' ' Q 5*JB2*5\0 5\2/0 < B30 '
4&25JB252B L ' B5 42 JB 5' B\ ; 2 25JB25\2
6 :9BB 42 JB 5' :+ ++28 25JB25\28
!J , ! ' ' Q 5*JB2*5\0 5\2/0 # ' < 882
4025JB252B ' 28 B:928 25JB25\28
'V' ! ' Q 5*JB*52*; 5/0 ' '
']' .3 :5 42 ;233B2 +2G+\ 4 58 +'3B\ ; 2 49 ; :9
+5' .3 :5 4&25JB252B 428 .=2E 9A0 42 +'E:+ .
' '<-/# - # 3
3' ! Q 5*JB*52*; 5/0 8'5 ' 2K
3 :5 4&25JB252B 952 B:92 LL .3 :5 42 <B\82532B +2
G+\ 23 8' < ++2 \+' ; .= 52 \ G 33B2
' '<-/# - #
3' 'Q 5*JB2*5\' '8R++ G2 /#'<B254
95 ..253 JB E20 ?9 54 +'8R++ G2 ?9'89 3 283 ;92332
@&25JB\520 @&25JB\52B /0 E' :' L " !233B2 49 JB 5
4 58+ '3B\ ; 2 49 ; :9+ 5'LL J'23 G8:+9 ;253' 9 8"
?9& + 25JB25\0 2&283 \+9 ' \ ; :94B20 2&283"*4 B2 + 93
?9& + .=\E2 .2 ?9& + '.: ; ;25.\'LL 6 J' : ; ;25"
.2B4&952 .2B3 52 ?:5' 5JB252B 952 B2 5JB2K
52B 428 B2+ 3 :58' '.=:82 93 ; + 25JB25\2 23 2+2
\.=:9 '] 2B ;2 42 .: ; ;2B.2' = BJ2B 428 ; B"
.= 54 828 89B 95 G 32 9 ?9' 5&283 < 8 25.:B2 25 \3 3
42 < B3 B' LL"0 5JB 882B E2.' 49 JB 5 +28G283 9A0
+ E:+ ++20 23.'LL 98258 5293B20 \3B2 ; 8 9 JB 5
$9 54 +28 @29528 .=2E 9A :93 .2 ?9&:5 <<2+2 25"
JB25\0 2&283"*4 B2 +:B8?9& +8 8:53 9 JB 5 23 \+'
< ++20 '1& 5 'LL B:E2BG2 $9 G 25 25JB\520
G 25 5 3
-'# 0 A 96 8' +28 H+28 B2+ J 29828 42 2 9<B\I
<:253 ; :BB2 H ; :94B2I \ ; :9+ 58 ?9 332 ;253 8 58
;:39B2 23 8 58 93B2 4B: 39B2 3:93 .=:9 H.2I ?92 +
.:5E25B '\+2 H+ I 8:9 8 5.2 42 +2 H+ I ; 8:5 23
8 ' :.3B: 23 8 5:55 58 42E 53 4 .328 ?92 2+28
<:253 25JB252B 8 58 59+ .:53B24 3 <B\8 +2 G+23 42
.2+5 ?92 2+28 3B:9(2B:53 25JB25230 > ' .)
7 '<'FN' S 6 8' B 5.20 .: ;G 25 ?9&:5 3 25"
ER2 &25JB252B ?9 54 +2 ; :9+ 5 ;29+30 ' ' ! 5 '23
<9 88 5.2 42E 2 H ; 5?9210 + 52 23< 8 .2 3:9B
?9'E29+30 n ' 0 ' 5 ; :9+ 58 _5 9A0 ?9
<B2 ; 28 E 2530 <B2 ; 2B 25JB 520 - ' $3S
-' (!'<- ' 23 /# -
' 7 'Q 5*JB2*5\' '8R++ G2 /#'<B254
95 ..253 JB E2 ?9 54 +' R++ G2 ?9'89 3 283 ;92332
@&25JB\520 @&25JB\52B /' LH 6 $'5 2B ;2 42 ;\2 "
5 ?92 + 82 4 340952 B:92 4253 2 , 25 253B 53
4 58 952 93B20 + 3 ; :9E: B' NN I ' ' B\82532B
+2 G+\ E2.'8'< ++2 \+' ; .= 52 \ G 33B2 LL G"
8:+9 ;253' + 25JB\52 G 25' LL ' 2B;2 42 ; K
B 52 BB ;2B 25 25J325 J2 5JB252B 428 9"
3 +28' 5JB252B 952 <: ;<20 R @232B 42 &2 9
E 53 42 + B2 @:92B 58 +2 + 5J J2 :B4 5 B2
:5 4 3 ; :B.2B NN 0 53B:49 B2 +2 JB\8 253B2 +28
89B .28 42 429A J+ .28 4 8<:8\28 52 89B & 93B2
B\+2B 952 82.:542 :80 23 <B\8 E: B @ 95 0
95 :9EB J2 4283 5\ \ \3B2 4:B\0 42 ; 5 \B2 ?92 +
89B .2 25 8: 3 \J +2 23 <:+ 2 LL &25JB252B0 5 # '
2 @: 54B2 < B 25JB259B2 2332 B:92 8&25JB\52 89B
.2+2" \ !8 8&25JB\5253 25 ?92+?92 ?:5 +28 958
4 58 +28 93B28 .: ; ;2 +28 B:928 40 52 ; :53B20
M 'A !-' 'N6 !# '4 \B2532 4\.:9<9B2
42 +29B8 G:B48 ?9 8 @983253 2582 ;G+20 ?9 8&25JB\K
5253 ;9392+2 ;2530 ' !/ ' K7- "
'<-' V0 23 /# -3 +28 42532+9B28 42 + 'B:92
\3 53 .: ;< B\28 \ 428 JB 580 .: ; ;20 4 58 -/# A'
2+28 8:53 .: ;< B\28 \ 428JB\+:58 2&283 9 :54
+2 ; \ ; 2 ; :3 ?92 -/# - # V 5 54 ?9\ # - 25
+3 5 (# - '3 ; 8 +2 .= 5J2 ;2 3 42 . 25 J 3 4 "
.9 3\
3 'Q 5*JB2*529B/0 ' ' 2+9 ?9
<B\82532 +2 G+\ E2.'8'< ++2 \+' ; 2G 520\ G 33B2
'Q 5'2*5 9*B&/0 ' LL 6 :83 :5 B28K
<2.3 E2 42 429A B:928 ?9 8&25JB35253 LL 6 2B ;2 4& "
5 3: ; 2 !:42 4&9 :5 428 :8 42 +'E: 32 49 2B\52
\ & 42 4& 5\J +3\8 :9 42532+9B28 ?9 8&25JB\5:53
' '<-/# - #
'D0/@7'-E:'+' (4["" #"&[*40'##!' */7*'
/'%'*!." 0![(-"/7'*-
'Q 5*JB: /0 6' ' ! ' 6 7
'Q 5*JB: /0 ' ' 23 3 .: 5 <+ .\ 253B2
+2 ; 5.=2 23 + '3\3:' 428 <: 5328 23 428 < .8 42 B"
4: 8 2B
7 'Q 5*JBN*8\/0 E' ' 2B ;2 +GB2 23
JB:88 2B 254B2 952 2 ; ;2 JB:882 & *3" + < 8
34+9 ?92 E:3B2 <\B2 3 25JB:882 E:3B2 ; \B2^ '
!-' 7 - '5+0 V
-'# 0 A ; 6 8' 8 9.958 ;3 H<2333I G 295 83B2
25 3258 42 : + ; 5 J20 ?9'5 e'< 8 +: A =: B80 8
.: ; ;2 8& 9.952 2 ; ;2 JB:882 82 ; B2 \ 9 2
<2B8:5 2 ?92 .2+9 ?9 25JB:88' =:B8 ; 5 J20
? AE 50 ' S 6 8' 53 H+I J B4 ' 949 50
3: 4 58 2+ 42 @:9E2530 $90 +25' 8 '8' 2 23 428
93B28 JB 5 :2530 7"' " @ ' ' D6 '++AED

$9 54' 2B5 B4' :3' 2532:49Ɖ 8' +9' 25JB:88 ' +2' .:29B' 25' E253B2Ɖ 6 ' '5Ɖ "
' ?' /'%' "% 'U$"++"J'> '0.0-&
0!((-+2' ("/('7M/M'0&#" '"/#'" 7'*('> "/7'*(("' &"
2*"!'
3' 'Q 5*JB4*829B/Ɖ ' ' 2B ; 2' + GB2' 23' JB:88 2B' 2+9' ?9' 25JB:882' &283' 95' 25JB:8829B' 42' 82BE 5328
! Ɖ ' Q 5*JB9* ; 2* NƉ 2/Ɖ " ' " ' ! 8' 25' JB9 ; 2 9A' 9' 8 5J' 25JB9 ; 2+4
! 'Q 5*JB9* ; 2* N' &>824:9G+2?9 54' + '8R+ G2' ?9 ' 89 3' 283' ; 92332' @&25JB9 ; 2++2Ɖ @&25* JB9 ; 2++2B /Ɖ 5' ' ! 233B2' 25' JB9 ; 2 9A' LL &25JB9* ; 2+2BƉ E' 6' ' 2' ; 233B2' 25' JB9 ; 2 9A' 2+ 3' 8&25* JB9 ; 2++2 ' LL 3' E2.' 2++ <82' 49' <B:5: ; ' 2+ ' 3' 25* JB9 ; 2+2B' +2' 8 5J
' '> '23' , 'JB9 ; 2 9'
3 0 Q 5*J=2*5 * NƉ #N2Ɖ # ; :9 +* N28/Ɖ " '" ' :5E2B3' 42' J925 ++28' LL J' :93' +2' <=NG98' ?9&:5' B2<B:.=2'6' BNG29 Ɖ 5J925 ++N' 428' 3 ; 28' 49' :53* 29 Ɖ @' ' ' ' " ' Ɖ
3' ' Q 5*J=2*5 * NƉ A' ; :9 ++N28/Ɖ ' ' :9EB B' 42' J925 ++28' LL &25J925 ++2BƉ W' ' 2' . :9EB B' 42' J925 ++28' # B< J:5' 8&25J925 ++2B 3' E:+:53 2B8' <:9B' B2' .B: B2' ?9& +' 5& ' < 8' +2' 8:9
- ' ?' 5' 3Ɖ 23' ,
3' 3> ! ' Q 5*J=29*+2* ; 5/Ɖ ' ; ' 2B ; 2' JB:88 2B' .3 :5' 4&25J929+2B' Ɖ
' Q 5*J=296 N/Ɖ 5 ' ' 2B ; 2' JB:8K 8 2B' B2' 428' 5@9B28' LL &25J929+2BƉ 5 ' # ' 2' 4 B2' B4. <B:?92 ; 253' 428' 5@9B28Ɖ 428' ; :38' JB:88 2B8Ɖ < ?9 538' +8' 82' 8:53' 25J929+48' . : ; ; 2428' .B:.=2* 329B8' 58' +2' . B5 E +Ɖ 428' E: 39B28' 42' ; 8?928' 8&25J929+253' 9' JB 54' <+ 8 B' 49' <9G+ .Ɖ <<+ 9* 4 88 53' .29A' ?9 ' :53 + ' + 5J92' + ' ; 29A' +N2
' ' 5' 3 Ɖ 23' , ,
Ɖ ' Q 5*J=29*+29BƉ +24*M&/Ɖ ; ' 23' ' 2B ; 2' JB:88 2B' 2+9 Ɖ .2+2' ?9 ' 25J929+2. ' S ! ' Q 5*J=29*+2* ; 5/Ɖ ' ' 2B ; 2' 42' . :583B9.3 :5' ! : ; ' 4:55N ' 429A' 253 28' 4&2 ; GB E2 ; 253' 4 58' +2?92* BG + 3B 2B' B2?: 3' D * BN32' 49' <: 5?:5Ɖ ' ! ' ,'* ,* ,
' 5' 3 Ɖ 23' , , ' G:9.=2Ɖ G:9.=2 ; 253' 28' 429A' '52' 82' @983 _253' < 8
' Q 5*J=29*MN/Ɖ 5 ' ' 2B ; 2' <:<9* + B2' 23G 8' B: ; <2BƉ 8 49 B2' < B42' G2++28' < B:+28
- ' (! ' 5' 3 Ɖ 23' J929A
3' # Ɖ 'Q 5*JG *.GNƉ .=N2/Ɖ 4@' 2B ; 2' 42' G+ 8:5 ' 2' 4 3' 428' 3B: ; <28' 23' 93B28' 583B9 ; 2538' 42 ; 4 ; 2' 28<G22Ɖ 4:53' &2 ; G:9.=9B2' 283' 4&95' 93B2' G ; +' ?92' +2' . :B<8
- ' (! ' 5' "Ɖ 23' 5. 25 B 5? 8' J9 . 2Ɖ + 25Ɖ G 542Ɖ . :9BB: 2Ɖ ?92' 2MƉ E2.' 4:932Ɖ B 33 .G2' G F ' ; :3 ' B ; 5 ?92' . :582BEG' 4 58' 428' J+:* 828* 5.' =' ++2 ; ' F *' G 542
'' # ' Q 5*J= *.=9*B&@Ɖ 8' ' 2B ; 2' 42' EG52B 2' :B5' 428' . :B4:58' ?9 ' 82BE253' 6' <:B32B' 95' . :B' 42' .= 882
- ' # Ɖ AEB' 8' $9 54' +' 82' B25. :53B2B ' 4 58' 952' 32832' 95' 54:9 ++2B' :B3' . :9B3Ɖ .2' ?9 ' <293' B2' 253B2B' 25' 4:932' 8& +' <293' 283B2' . : ; <3G' :5' 4 :3' 25' B2' + ' <B29E2' 25' <B25 53' 952' 3B: ; <2' ?9 ' 3' 952' 25J9 2G9B2' ?92' E:98' <254B2M G' .23' 54:9 ++2 Ɖ . BƉ 8 ' 2++2' R' <293' 42 ; 29B2B' 33 .=G2' :5' +2' 4: 3' . : ; <32BƉ ' 452B' < ' C Ɖ 4 58'
- ' (! ' > , *
@* ' Q 5*J= B*+ 5*4G/' E' ' B* 5 BƉ 42. :B2B' 42' J9 B+ 5428' <BG8' E: B' . :9B:55G' 23' 25J9 B+ 54GƉ 8' @2' :82' 4 B2' E2.' 54 B2Ɖ 428' 283:58' 42' 828' +:9 5J28' +:B 88 5328Ɖ ' < * ' ' * ' <' N"Ɖ 4 58' ' E92' 283' B* BG3G2' < B' 952' + 2' . :9E2B32' 4&95' G: 8' 4&:B ; 28' 25* J9 B+ 54G8' 42' + 528' 23' 42' E J52' E 2BJ2Ɖ Q
3 4'& ' "
- ' (! ' 5' "Ɖ1'23' / 7 # - " '
3 ! # Ɖ ' Q 5*= *.=GƉ .=G2/Ɖ 4/' 2B ; 2 4& B<253 J2' B.2++28' 25= .=G28Ɖ < B.2++28' 42' 32BK B 58' ?9 ' B253B253' +28' 9528' 4 58' +28' 93B28' < B' 952' JB 542' ?9 53 3G' 4& 5J+28
- ' (! ' 5' "Ɖ 23') *
j' ! 'QG*5G* ; &/Ɖ 6' :R' '
3' Ɖ 'Q 5*G B*4GƉ 4G2/0 4/' 2B ; 2' 42' 2G 882' $9 ' 283' 25' = B42
- ' # ' S 6 8' 28' .G 258' ?9 ' 52' 82B:53 + 882M . :9BB2' 9' <B2 ; 2BƉ 82B:53' 25= B42M< B' +28' . :9<+28' G' J25: EB28' HJ25 GB2IƉ A , ' 'S
' 5' ' Ɖ 23'
Ɖ 'Q 5*G B*4 Ɖ 4 2/Ɖ " '" ' 25K 49' G B4 ' : +G' 89B' ?9: ' ; :5' G ; 2' G 28<: B' 25* G B4 2 ' 6' '& ' ' ' B' E:98Ɖ < B' E:8 G 25 38' G' < B+2B' 25G B4 2Ɖ ' - ' Ɖ ' &952' ; 5' 8 .B +GJ2' 9A' :B 38' 25G B4 2Ɖ 5' # '
' Ɖ

! # 'Q 5*= B*4 B/Ɖ W' ' 3+]' :552B' 42' + ' = B4 2882Ɖ B2' :82B' 2' G:5' 89.2G8' '25= B4 ' 2' 4 8. :9B8' E:B G+2' 25= B4 B ' ; 28' 29AƉ ' 7 ' (! ' N' > ' G28: 5' 42' E:98' E: B' 25= B4 B' 95' ; 53Ɖ 6' '?# - ' '" '>&R' . :9B8' 42' .2' < 8' ; G ; 2Ɖ 23' E:98' ; &25= B4 882MƉ '@ # ' Ɖ " ' G<9G . 58' 5JB 38' ?9&25= B4 3' ; ' .+G ; 25.2Ɖ ' ' " ' 1 # ' Ɖ ' ++:58' < B+2B' 9' <29<+2Ɖ 25= B4 B' +28' 3 ; 428Ɖ ' D#7 7 ' EƉ E $92+?9228<: B.2<25* 4 53' E 253' 25. :B' ; &25= B4 BƉ ' & ! ' EƉ ' :3B2' + :5J92' 549+J25.2' '42' 5:8' .=2E + 2B8' 25= B4' + ' + .25.2Ɖ ' (' Ɖ ' @L G8:+9 ; 253' : 5' 42' B2' E +: B' 828' 8: 58' 23' 828' <2 528Ɖ +' 25' < B+ 3' E2.' 952' ; :4283 2' ?9 ' 25= B4 88 3' G' +2' BG* . : ; <2582B' ; +Ɖ ' 1!7 ' L' B2' 25= B4 B' ?92+?9&95' < BƉ +9' B2' 58< B2B' 42' + ' = B4 2882' :R2M*E:98' . : ; ; 2' 3=:5' 8 9B 3' 25. :B' 82' 3 B2' ' @2' 52' E 8' 3' 25= B4 B' < B' ; :5' BGB2^' ' &' # Ɖ " ' 6' &25= B4 BƉ W' # ' 2E25 B' G B4 Ɖ :82B' >2' 52' ' < 8' 3B 49 3' 8' 4G+2 ; 253Ɖ ?92' @G' 52' ; 2' 8: 8' 25= B4' <+98' 4&952' : 8' G' G3254B2' :9' B2882BB2B' 828' <258G28Ɖ ' 0! ' 7#' '5 (' "7' B:3Ɖ 7' ()' 7#' =G8G2' <<+ 94' S' 5 +4G+ 3G' < B' +G' 8&283' 25K = B4 Ɖ 6' ' ?# - ' Ɖ " ' 2' MG+2' 8&25G B4 4 3Ɖ ; :9B' 42E 253' 9B 2Ɖ ' # ' EƉ C
- ' ?' ' 5' 4 3' +2' <+98' :B4 5 B2 ; 253' 2:= B* 4 B' G E2.' 95' E2BG2' G 5 5 3 P ; 8' :5' 3B:9E2' 988 25G B4 B42Ɖ ?9 ' 283' 5. 25Ɖ 23' 5& B 25' 4& 5. :B* B2.3' ' ' 9J2+ 8' '4 3' ' 5G ! B' 283' 95' ; :3' 98+3G 42' G2 9. :9<Ɖ 5:5' < 8' .2B328' 428' G:58' 9329B8Ɖ 5' 42' .29A' ?9 ' :53' <B: 288 :5' 42+ ' <9B23G42' + ' + 5 ' 2 ' '283' EB '?92' 5:9E2+2 ; 253' 95' 42' 5:8' G2B E 58' '<B 8' + ' = B4 2882Ɖ :9Ɖ <:9B' < B+2B' . : ; ; 2' +9 Ɖ ' > ' -N & #" ' 4&25' 982BP ; 8' +' 52' 93< 8' ; 32B' U 58' ?9&:5' +2' E: 3Ɖ :B52 ++2' G3 3 42' .29A' ?9 ' 98 253' 42' .2' ; :3Ɖ +2?92+Ɖ G29B2982 ; 253Ɖ ' 2 ; <:B3G
' 6 ' ' '8 ' +:B' B2. :B4 ' +28' G 3 ++28' ?92' + E: 3' @G' 328Ɖ 2' 258 ' +:B.92B8' 25= B4 Ɖ C &" ' Ɖ "N' 2+' 8 53' 25.2=8' <:B32B' 2+' 32 ; <+2' 8&25= B4 Ɖ 298' 8&25' 2B3' HG3 3I' .9B2. 2MƉ 42' 2<B2' +2' 2B Ɖ & ' ' # ' C" ' LLA + 6' 8' H ' 4 ; 2I' :9.2' 4: 3' 283B2' 23' 42G:52B2Ɖ 53' ?92' . +' 8: 3' 8 ' 25= B4 8' $9& +' 8: 3' 42' +' ; 2B' 28<B 8Ɖ ' "7' (! - ' LLA E6' 8' ! 8' J B42' G 25Ɖ 89B3:93' 52' 3&25G B4' S' B2' .=:82' :4' +' 3' E ++25 2Ɖ " ' <' N' ! 28' < B' G:52' 28<2B 5.2' 4&R' +2B' 8&25 B4 3Ɖ H #!# ' " ' . ! ' E' %CN ' &28<B2* E 2B' 82' B28@: 83' 23' 25= B4 83' ?9 53' +' 283' 3:98@:9B8' 9' 428898Ɖ C - / # ' ; Ɖ ' LLAEV 8' $9 ' 8&25* = B4 88: 253' 4&253B2< 254B2Ɖ ' ; Ɖ " ' LLAE 6' 8' 2' 82 J529B' 42' ! :5 ?92Ɖ ?9 ' 283: 3' 25' + ' ; 28+G2Ɖ 25= B4 : 3' 828' J258Ɖ 25' 4:55 53' G' 3:9B' 42' GB 8Ɖ > ' 5& Ɖ 5338 ' " ' !7 ' '"% N*"N CƉ 4 58'
' 3' "Ɖ 23' G B4 P <B:E25?' -& #" #
j' ! 'Q 56= B*4 *82* ; 5/Ɖ ' ' .3 :5' 4&25= B4 BƉ 42' 8&25= B4 B
- ' # ' S 6 8' 2' B:R' 25 8Ɖ +8' 9' B:R' 4 ; <' 2BB2' 42' :B39J +Ɖ 283: 3' 253BG' 25' < ' <:88288 :5' 23' =2B 3 J2' 4 ' B:R 9 ; 2' 42' :B39J +Ɖ < ' B+2' 3' 2325* = B4 882 ; 253' 829+2 ; 253' 42' ?9 3B2' . 3G8' N3' E ++28Ɖ +88' + E' ; Ɖ < ' F"Ɖ 4 58'
' ' <-& #" #
3' # ! ' QG*5 B* ; :*5 2/Ɖ 8' ' LL 6' 2B ; 2' 42' ; 98 ?92' 5. 2552' 88 J2' ?9 ' <B:2G4 3' < B' 428' ?9 B38' 42' 3:5' . :58G293 8' LL 6' 2B ; 2' 42' ; 9K 8 ?92' ; :42B52' 88 J2' :9' +2' ; G ; 2' 8:5' 283' 4G8 J5G' < B' 429A' 5:328' 4 GB25328Ɖ . : ; ; 2' 93' 4 G82' 23' BG' GG* ; :+Ɖ ; ' 4 G82' 23' ' 5 39B +
' :R' <
! # ! ! $ 'QG*5 B* ; :*5 *\&/Ɖ :4/' LL+6 2B ; 2 42' ; 98 ?92' 5. 2552' 2' J25B2' 25G B ; :5 ?92Ɖ :9Ɖ 89G83 53 E2 ; 253Ɖ 25= B ; :5 ?92Ɖ G3 3' 952' ?:5' < B3 .9+ GB2' 42' 4 E 8:B+ ' ?9 B38Ɖ :9' 28< .2' 42' 429A' 3:58' 23' 42 ; Ɖ 25' 95' ?9 B3' 42' 3:5Ɖ 95' 82. :54' ?9 B3' 42' 3:5Ɖ 23' 95' 42' 3:5' :9' 3 2B.2' ; @29B2' L> B' 2AK 3258 :5' &G G 3942' <2B<G392++2' 42' B2J B42B' +28' .G* @238' G+: J5G8' 23E: 8 58Ɖ 4&25 ; 289B2B' 532BE ++2' < B' + ' E92Ɖ ' G3 G+' 4 58' 5:3B2' :BJ 5 ' 952' G:=2++2' 25* = B ; :5 ?92' 42' 3:58Ɖ 42' 82 ; *3:58Ɖ 42' ?9 B38' 42' 3:58' 3:93' 93B2 ; 253' G325492' 23' 3:93' 988' B J:9* B2982' ?92' .2++2' 42' + ' ; 98 ?92' <:9B' :B2 ++2Ɖ 0 - ' 7#' ' - ' <Q!' 3' AEƉ <' %Ɖ 4 58' B ' ' 2B ; 2' 42' ; 98 ?92' ; :42B52' ! 5 GB2' 4&G.B B2' 4 58' +2' J25B2' .=B: ; 3 ?92Ɖ 25' 4G8 J5 53' +2' ; G ; 2' 8:5' 89. .288 E2 ; 253' < B' 429A' 5:328' 4 GB25K 328Ɖ . : ; ; 2' 8: +' 4 G82' 23' + ' GG ; :+Ɖ 93' GG ; :+' 23' 8' 5 39B2
' & E << :E AGƉ 42' EƉ 25Ɖ 23' 4< :EƉ Ɖ = B* ; :5 2
?# , #8? ' 'Q 5*= B*5 *2GGƉ .=G2/Ɖ # ' ' :9E2B3' 49' = B5 8' 3' +29B8' .=2E 9A' 25= B* 5 .=G8Ɖ 2' :B.2B9G 58' 33 .=28Ɖ +B< E' 2' :' >2 5Ɖ E 5?9Ɖ 253B ' G' :54B28' . : ; ; 2' 95E 5*

?925BƉ 89B' 95' 2=2E +' G3 5.' B 2=2 ; 25325= 5 2G Ɖ # 8Ɖ \ ' , ' .= <' X' 4 48' LL ; + GB2 ; 253' 2' E: +G' G 25' 25= B5 .=GƉ <+ * 8 ; ; 253' 25= B5 2GGƉ V' 283' EG39' 4&952' ; 5 G 2' B3* 4 .?+2' Y
! ' Q 5*= B*5 *.=2* ; 5/Ɖ 6' ' .3 :5' 4&25G B5 .=2B' .2?9 ' 25= B5 .G2' e *' 5: 8
'Q 5*= B*5 *.=G/Ɖ ' : ' L 6' ! 23K 3B2' +2' = B5 8' 5= B5 .=2B 95' .G2E +' LL & G ++2B' JB:328?92 ; 253' :98' ; :?92M*E:98' 49' ; :542Ɖ 42' E:98' G3B2' 3' 25= B5 .=2B42+ ' 8:B32 ' ' , H' ++Ɖ ' B' 25' .= 8829B' ; 29A' @&G3 8' 25G B5 * .=GƉ ' 0 &A ' ' ' LL F6' &25= B5 .=2BƉ 3U' ' 2' EG3=' JB:328?92 ; 253
- ' # Ɖ A9 6' 8' 298' H32+I' 28< 82' 5&283' ; 2' <:9B' <+ 4 2BƉ ; 8' <:9B+9 ' 25= ; 28\ 2B' H<BG< B2BƉ ; 9* 5 BIƉ ' Ɖ *
- ' (! ' > ' ' ' *
' ! *# ' Q 5*=N/Ɖ +:.' /' 58' +2' = 93' $9&283 .2. ^' :98' E2M ; 8' +28' +29B8' 2 625*G 8 ' - ' :98' 52' ; & E 2M < 8' 4 3' ?92' E:98' +28' E:9+ 2M' 25' 25*= 93Ɖ ' ' , ' ' Ɖ 8
- ' # $ ' ' Ɖ 23' ,
(' Q 5' =G* 29B/Ɖ ' ' 9EB 2B' ?9 ' <:82' +28' GB ?928' 25' G 28' <:9B' +28' B2' . =2B
- ' (! ' Ɖ 23'
! ? , ' ' Q 5*5GB*GG/Ɖ < B3Ɖ " ' ! 8' 25' =2BG2' 5' 32BB 5' 25=2BGG
! 'Q 5*5GB*GGƉ 5<B:5:52G' . : ; ; 2' 4 58' 53GB 29B/Ɖ W' ' ! 233B2' 25' =2BG2Ɖ
' ?T" ' B' ' B' 3BG8' JB 53' .= 9+3' ?3 2B2M +28' + 2EB28Ɖ 3' 4:52?928' 25' + ' JB 53' =2BG2Ɖ BG8' 42' 2 9E2Ɖ8:9E253' 8&25=2BG2' H82' . :9.=2' 4 58 =2BG2IƉ :93' <:9B' 283B2' <+98 B28.=2 ; 253Ɖ 7 7 ' J! ' '0' " " Ɖ 4 58'
- ' c (! 5' "Ɖ 23' 1 ' 5G2BG2B' 8 J5 3' @ 4 8' 2 ; <: 8:552B' ' 25' E:98' <2$83' 25. :B2' :. B2' 23' 25* =2BG2BƉ ' AE5
' e # # Ɖ ' 5*=9*.=GƉ .=G2/Ɖ 4@' 2B ; 2' 42' ; B 52' 2' 4 3' 4&99' GG3 ; 253' 4:53' +28' :29EB28' ; :B328' :53' 952' G+GE 3 :5' <+98' ?9&:B4 5 B2
- ' (! ' c ' '23' ,
@* # ('QG*5 *4B&/Ɖ 6' 2B ; 2' 4&= 83: B2' 5 * 39B2 2' 2' 4 3' 4&95' ; 5GB +' ?9 ' B25 2B ; 2' ?92+?928' J:93328' 4&2 9' LL@ ' ' 25B2' 42' 82B<2538' LL ' ' +:93B2' ; B 52' 4& ; GB ?92' LL 2B ; 8' 42' G:3 5 ?92' 25B2' 42' 8R5 53GGBG28Ɖ 4 58' +2?92* :5' 4 83 5J92' 25=R4B ' +9.39 532' Q :.= G2G 52/
' 'D X <:.Ɖ 42' EƉ 25Ɖ 23' 4 :<Ɖ 2 9
3' ' QG*5 G*+ *@&/Ɖ ' &' 2B ; 2' B9B +' .3 :5' 4& BB .=2B' +28' 5 2++28
- ' (! ' <:9B' 28 ' <BG A2Ɖ 23' ' <+ 532
! *J 0 < ' QG*5 *J ; * *\&/Ɖ :4/' LL 6 $9 B25 2B ; 2' 952' G5 J ; 2Ɖ ?9 ' 3 253' 42' G5 J ; 2Ɖ 4:53' +2' 8258' 5&283 < 8' .+ B' 8. :9B8' G5 J ; 3 ?92' c 5* 89 32' 42' .2+ Ɖ +2' B: ' 3' E25 B' 4&#G+ :<:+ 8' 3B: 8' <2B* 8 55 J28' 4&28<B 3' 89G3 +' 23' 8 E 53' 25' ?9283 :58' G5 J* ; 3 ?928Ɖ ' 324& 8:<2' LL 6 J' 5=: ; ; 2' G5 J ; 3 ?92Ɖ G: ; ; 24:53:5' 52' . :55 33' < 8' + ' <:K 8 3 :5' 4:53' :5' 52' <293' <G5G3B2B' +28' 8253 ; 2538
- ' # ' S 6 8' ' @2' < 8' E29' 25' + 3:5' .2' 4 E 5' ; :3Ɖ ?92' 5 39B2' 5&283' B 25' ?9&952' <:28 2' 5 J ; * 3 ?92^ ! ' Ɖ F
' ' 1
7 < ' ! " ' QG*5 *J ; *3 *\2* ; 5/Ɖ /' &952' ; 5 GB2' G5 J ; 3 ?92' ++ < B+G' G5 J ; 3 ?92* ; 253
' (! ' 1 +, ' 23' +2' 89 A2'
7 ' QG*5 *J ; &/Ɖ ' ' LL 6 G +5 3 :5' 42' .=:* 828' 25' 32B ; 28' :G8.9B Ɖ ; 8' ?9 Ɖ 3:98' BG95 8Ɖ 42* 8 J5253' 2A. 98 2 ; 253' +29B' :G@23' 23' 8:53' 4:55G8' '42E 52B' ' B2' 52' 42' G Ɖ R 53' 2532549' < B+2B' 42' + ' JB 542' BG<93 3 :5' 42' +: ; :5Ɖ E 53' G' >2B9K 8 +2 ; ' <:9B' 25' B2' &2A<GB 25.2' < 3' 428' G5 J ; 2B' ' 1 ' 0 " ' 5Ɖ AƉ ' &G3 3' 95' 2A2B. .2' 253B2' +28' J258' 4&28<B 3Ɖ 42' 82' <B:<:82B' 428' G93J ; 28Ɖ . : ; ; 2' 5:98' E:R:58' < B' +28' 2A2 ; <+28' 42' +: ; :5' 2' 42' + ' B2' 52' 42' G < ' A , ' ' $ ' 3 3' S Ɖ 6' < B3' ' F%Ɖ 4 58' 7 ' :9B ; : Ɖ @& ; 2' 32BB G+2 ; 253' +28' G5 J ; 28Ɖ ' 0 ' *
' 2+9 * .+Ɖ 4&952' G5 J ; 2' "R 53 3 :9EG+2' ; :3Ɖ 2' .B: 3' 95' JB 54' JG5 2' 23' 8:9E253' 5&283' ?9&95' 8:3Ɖ ' A ' ' +Ɖ " ' &283 +G' H4 58' +2' ! 2B* .9B2' J + 53Ɖ ?92' G5 J ; 2' 82' < B2' ! 23' 95' ; 8?92' ; R83GB 29AƉ 3Ɖ 4&95' :+2 ; 5.2' 23' G M BB2' ; G B* B 88 53' +28' .9B 29AƉ 83' 3:9@:9B8' 529E2' 23' @ ; 8' B B2Ɖ ' 1" ' > ; 3 3:5' LL 2' ; :3' 42' G*Ɖ 5 J ; 2Ɖ .2' ?9 ' 283' G 42E 52B' 4 58' 952' G5 J ; 2' ; 98Ɖ E:58' E9' 3:93' B 8' 54 J5G42.2' ?9&952' G_+J ; 2' 49' #2B.9B2' 82' 3B:33E 3 5& E: B' <: 53' 4:' ; :3Ɖ 6 6 ' ,< ' 1 ' ' C>,/ ' ' 3' E9' Ɖ < ' " Ɖ 4 58' <:9 ' ' 23' ; R GB2 ; 253' : G' +2' ; :3' 42

[illegible]

[illegible]

[illegible]

3 'B2▯ 8 *8 9' "#▯" _C'LL 58 95' 8258 5 +:J92'
G325 B < B 952 8:B32 42 E :+25.2' 3 8:53 .29A ?9'
<:88 24253 +2 JB 54' B3 4&25+2E2B +'<2B89 8 :5' 23 42
B2 ; 92B +28 .:29B8 42 3:93 95' <29<+2^ ' 3' AA ▯
<' "NN' =2 ; +=29B29A & 9329B '$9 B2 ; <+ 4&952
5:G+2 23 .:583 5+2 2B3' ' 293< B 828 3 +2538 829+8
25+2E2B +28 89 B J28▯ '+ ' "F6 'LL '82 4 3 988'
42 .3 :5 2A2B. 2 89B 952 ; 9+3 3942▯ 89B 952
3B:9<2 <:9B +'42. 42B▯ 253B 352B' 28 < B:+28 25*
+2E_B253 +' :9+2▯ ?9'.:9B93 9A G BB. 428' 2 .:K
+:52+ 25+2E '8:5 B2J ; 253▯ ?9'='8 3 3 3 ; B.=28
89B +'G 332B 2' LL d 33B2 +2 :54' 4&95 .= 94B:5
E2.' +2 ; B32 9 B:54' LL 5+2E2B 952 < 3.2 42 .9 *
EB2▯ 25' <+ 5 B +28 G:8828 9' ; B32 9A 'LL 2B ; 2 42
82BB9B2B 2' 3< B2B 4&952▯G BB2 42 2B +2 ; :B.2 9
4:53 :5 E293 B2 ?92+?92 :9EB J2' 5+2E2B 952
.+2 ' ' Md &25+2E2B▯ / ' ' 3B2 +2E"' 25' = 9+'
2 G +:5 8&25+2E '4 58 +28 B8' 2 .=2E + 8&25+2*
E 3 89B 828 @ ; G28 42 42BB 3B2' LLc3B2 4 33 .= 3▯
N3 3' & 3.:B.2 42 .23 BGB2 .: ; ; 25.2 3 8&25+2E2B'
++ 3B2 2 .3' 28 3 .=28 4&=9 +2 52 8&25+ 3E253 < 8
.+2 ; 253' LLc23B2 .=23 3 E2.'2 ; <B2882 ; 253' 2332
; B.= 54 82 8&25+ 3E2 B < 42 ; 253' LL 2 4 3B:G2B 3
8: * ; ; 2' $92+?928 < J28 <+98 +: 5▯ E:98 B23B:9*
E2M +' E E .3 3 ; < 3392982 42 :E2+ .2▯ 8:5 5.:BK
B J G+2 :+ 2▯ 23 .2332 J 3 3 5:5' <+98 49 E .2 ; 8
49 B2 ; :B48▯ ?9'.=2B.=2 3 8& 33:9B4 B▯ 3 82 4 8K
3B 32▯ 3 8&25+2E2B 3+9 * ; 3 ; 2▯ 6 '+ '#'
%› ' ▯ < B3' "]'+2?
-'# 'S ▯8' 3 B398 <B 53 28< 32 8' 5*
+2E2 9+B28 5:' +2J 2B2 ; 253▯ ?92 B 25' 59+2 52 +'
JB2E ▯ A D ▯ C"' LL A E6 8' B2 23 :BJ 2B E
.= 3.58▯ A E B:+28 3 G2832+23328 23 3 29 +28 25*
+2E 328▯ ' ▯ C@1' <' " 'FS 6 8' 28
9B2 +28 E:R253 = 9+3 25+2E328▯ JB 5428 .: ; ; 2
9B2 ++284& 852▯ ' 56▯BE▯ 8' B.=2+ 98.:5@2.*
39B 53 < B +2 <:9+. 2B ?92 +28 :=2E 9+A 25+2E: 253▯
.2 ?92 .&283: 3 ' '#4 ' '
' ' W ▯ 23 / '<B:E25?' /
b3' 'Q 5*+2*E29B/▯ 6' ' 2+9'?9'25+GE2
5 25+2E29B 42 2 ; ; 28' LL 5. 2552 ; 253' 5+2E29B8
42 ?9 B3 2B▯ 5: ;' 4:55 3 3 428 < B3 8 58 ?9'.=2B*
.= 253 3 89B<B254B2 +28 3B:9<28 2552 ; 28 4 58
+29B8 ?9 B3 2B8
'#$ '> /
'Q 5*+2*E9*B&/0W' '# ▯ ; <:9+2 ?9'
E 253 89B +'<2 9' 5 4 3<+93 33 9@:9B4&G9' 3+2E9B2'
F ▯ B3 2 4& . 2B ?92 :5 '8 3< B42 42 +' ; 882 3
+ ?92++2 2+2 32 3'LL 23 +2 428 <2 9A 4:53 :5 3
▯ +28 J 538' LLF▯ 2B ; 2 42 <2 539B2' +3E 3 :5 42 +'
' .:9329B ?9'82 4 33 .=2 42 +'3: +2'HL 2B ; 2 42 8.9+<*
'39B2' 2+ 2 ▯ 8 ++ 2'LL"T #2 32 < B 42 JB:8 +8
4 ;8 4 58 952 GB:42B 2
▯ -'# 'A3 '8' 28 4 B3B28 8:53 8<2B 3 2 49 .9 B▯
.: ; ; 2 <23 328 25+2E29B28 E2.' JB 542 42 ; 5J2 *
8:5▯ ?9'@233253 952 ; 3 2B2 82B29B2▯
"N' 5. 8 :5 H8:B32 42 B .39B2 49 .B 3 2I .:53 253
8:98 8:R' 42<2B4 3 :5 :5 25+2E29B2▯ 25 + ?92++2 +'
< 2.2 283 2 ; <:B3 32▯ 4:53 + R '<2B4 3 :5 42 89GK
83 5.2▯ ' ▯ "
-' (! ' > /
' 'Q 5*+ * *8 3/▯ 5' '!233B2'25'+ 8828'
' =2M ; :+ .2332 J M2332 25+ 88 32 E2.' 4& 93B28
< 3.28▯ # # 4 58 +2 ! ' '
' ' ▯ 23
+ ▯ 'Q 5*+ * 3▯ 32/▯ " ' "
'Q 5*+ * 3/▯ / ' ' 2B ; 2 42 ; ?:552B 2'
>: 54B2 2582 ; G+2 428< 2BB28 23 428 GB ?928▯ 4 58+'
.:583B9.3 :5 4&95 ; 9B▯ 25' <:8 53 +28 9528 89B +29B
+:5J929B 23 +28 93B28 89B +29B + BJ29B
-'# ▯ A56 8' '< 25 2 93 25 3 53 <+98 25+:+2
428 E .28 ?92 2+2 5&:93+ ' .:5 88 5.2 42 8:5 32:B▯
! ' <' """▯' ▯
-'#$ '> ' ▯ 23 K #
▯ c 'Q 5*+ *J54▯ J5 32/▯ " ' " '
! 8 25 + J52' :93B28 25+ J5 328' LL 2B ; 2 4& ; <B *
; 2B 2' 9EB J2 G 25 :9 ; +25+ J52▯ :9EB J2 4:53
+28 + J528 8:53 G 25 :9 ; + BB 5J428 LLp2B ; 2 42
B2+ 9B2' EB2 G 25 25+ J54▯ .2+9' 4:53 +' B2+ 9B2
2838' G 25 32 ?9&25 :9EB 53▯ +28 + J528 428 429A
< J28 82 .:BB28<:54253 < B 32 ; 253
3' N ! 'Q 5*+ *J52* ; 5/▯ ' ' .3 :5
4&25+ J52B 43 342 .2 ?9'2B3 25+ J54
N 'Q 5*+ *J52/▯ / ' ' 2B ; 2 42 = B<25*
3 2B' ! 233B2▯ E2.+ B 3J+2 23 +2 .:B42 9▯ +28 < 2.28
42 G: 8 89B 952 ; 3 ; 2 + J52' LL :552B 3 952 < 3.2
42 G: 8 +' ; 3 ; 2 :B ; 2 ?9& 3 952 93B2' LL 2B ; 2 42
3R<:JB <= 2' 8<:82B +28 + J528 4&95 + EB2' LL 2B ; 2
42 B2+ 9B2' '2825.:B2 4&952 54 8<258 G+2 54.28*
8 34 42 G 25 <+ 2B 23 25+ J52B +28 3 G+2 9A ?9' 82
B25.:53B253 4 58 .2B3 58 + EB28▯ 89B3:93 ?9 :4
429A 29 ++238 ?9'82 89 E253 :B ; 253 428 3 G+2 9A '
+2 443 93 4&25+ J52 ; 253 <293 B2 3: ; G2B +2 +2.329B

4 58 428 2BB29B8 .:58+44B G328▯ ' ' . 7# '
<' ""7▯ "F
' '> ' ' 23
' 'Q 5*+ *:9*G4/▯ W' ' @:932B 952
< 3.2 42 G: 8 3 ++42 25 .: 5 4 58 +2 G:93 4&952 9K
3B2 ?9' ' 432 :9E2B32 <:9B +'B2.2E: B' '82.:542
< 3.2 25+ :9G2 +'<B2 ; 3B2
' '<-' ' 23 !7
' 'Q 5*+ *82*B:*54/▯ W'V' 254B2
+28 G8828 89B +28 + 882B:58
' '> ' ' '
;' I ! 'Q 5*+ *M2* ; 5/▯ ' ' .3 :5 4& ; 3*
+ M2B :9 42 8&25+ M2B
' I 'Q 5*+ *M4/▯ / ' ' 5 :5.2B 4 58 952
+ M2▯ 4 58 95 8 G+2 ; :9E 53' 5 .=2E + 25+ M4'
' &25+ M2B▯ / '# ' &25 :5.2B 4 58 +28 8 G+28 ; :9*
E 538' 'E: 39B2 8&25+ M ' ▯
-' (! ' 5' " ' 23 B
! + ▯ 'Q 5*+9* ; *54▯ 522/▯ " I ' "
:+:B 4' B328 25+9 ; 5428' LL J9B2 25+9 ; 542▯ K
J9B2 B25492 3B 38*B:9J2 < B Q&98 J2 428 + ?929B8 +*
.: :+ ?928 :9 < B ?92+?92 < 88 :5' 'E:3B2 <=R8 :*
5: ; 2 GB ++ 532 23 25+9 ; 542▯ + 5&283 < 8 ; + 84
42 42E 52B ?92 E:98 3328 ! ' 9. 8▯ 52:9 B▯ 25*
'8.' '!'42 B 88 .' E 3 5 5 ; 293 Q 28*
<B 3▯ E2.' 52 J9B2 42 <+ 3 <:3= . B2▯ JB:8823▯
G 8823 23 :B3 25+9 ; 54▯ : '3%' XE
3' ! c ! Q 5*+9* ; *52* ; 5/▯ ' ; ' .K
3 :5 4&25+9 ; 52B 43 342.2?9'2823 25+5 ; 54
-'# ▯ A5 6 8' 29B5:98 H?92 29I +'8292 .2
3:B3 H3:9 ; 2I▯ ?9' 283 25+9 ; 52 ; 25M 42 3:93 +2
; :=42▯ 0 7 #'0'CN
' '> , '<B:E25?' ,
'Q 5*+9* ; *54/0W' 'LL ▯ @:932B E2.
+2 < 5.2 9 428 .:9+29B8 E E28 89B 952 '3 ; <2 ?9'
+9'4:55253 42 4.+ 3 < B B <<:B3 9 3B 3 5: B .2
?9' 3 .: ; < :B2B .28 .:9+29B8 3 952 +9 ; 3B2' 5+9K
; 52B 952 283 ; <2' LL G8:+9 ; 253' :98 25+9 ; *
52B:58 ▯ 5:98 <2 54B:58▯ 5:98 G BG:9 ++2B:58▯ ' '
- '> ' ' 28 .:9+29B8▯ ?92+?92 : 825 .= 28 42
29 ++28 4&:B 3+ .G428 < B 95 ; :B4 53▯ <B:9E253
.+ B2 ; 253 ?9&25 JR<32+& B3 42<2 54B252 93▯ <:9B
58 4 B2▯ ?92 B3 4&25+9 ; 52B▯ 6 ' 5:.[:B'
.=' C' ' F▯ 5+9 ; 52B 952 . B32 42 J4:JB <= 2▯
.:9EB B +28 4 E2B828 .:53B428 42 32 5328 <+ 328 42
.:9+29B8 4 4B253282 :9 9 ; : 58 3B .2B E2.' +2
< 5.2 9 23 428 .:9+29B8 E B 428 23 E:R 5328 +28 + ; *
328 428 < R8' LL F▯ B 2A3258 :5▯ .:+:B2B' & B429B
42 +' 4EB2 +9' E 3 25+9 ; 54 +2 E J2' 5 B:9J2
E '25+9 ; 5 38:532 53▯ ' <:+' ,' ,7 'LL &25*
+9 ; 52B +'3B:J332▯ 25+9 ; 52B 8 '3B:J52▯ G: B2 E2.'
2A248▯ < B.2 ?92 3B:< G: B2 B254' +2 52M B:9J2'
"6 J' 5+9 ; 52B 8:5 83R+2▯ R B4< 54B2 428 :B*
52 ; 2538 ?9':53 <+98 4&4.+ 3 ?92 42 5 39B2+' LLN▯ &25*
+9 ; 52B▯ / '# :' 2 ; 233B2 49 B:9J2' '&283 <:9B
+28=: : ; 28 ?9&2+28 82 B4253 :9 ?9&2+28 8&25+9 ; *
5253▯ ' '35'LL 2E25 B B:9J2 '3B:J52 .: ; *▯
; 2522 3 8&25+9 ; 52B
-'# 'S ▯8' 2 32+ G ; J2 HE ++ 5.2I ' 298
25+9 ; 523▯ 1&' " ' .! 'AAA A'LLA ▯8' :932 +'8 +2
25 93 25+9 ; 2542 H42 8 'G2 934I' < ' <' "N"' '
94 9EB2M +'.= < 3B '3+ + 28 HI aI'\'?: 3B2 + 28 +2E2*
B2532 3932 :EB2 25+9 ; 52B253▯ :38▯ <▯ % ' 9▯ G2+8
8 B28▯ 28 ; '+9 ; 2B2▯ 2 ; 28 3252GB28 25+9 ; 52B 8▯
1' $' ' A +08' 3 ?9 53 4 2 H+ '+952I $% 9 ; GB2
H42+&4.+ <82I < 8842' 'B2E 253 3:93 25+9 ; 542 28
B 8 ?92 +'8:+2 +'+' ; :583B2▯ '< ' "F N▯ '<B42
H+ '<B B 2I &2BG2 23 42 +:B8 25+9 ; 542▯ '"W %W'
2 H+ I' 4 8 8 ; 2 E2B39 ' .&283 .2+2 ?9' 25+9 ; 52
3:9328 +28 93B28 '23 .2832 E2B398 8' 283 <2+42
+: 348▯ # C' 3+ '<B2 ; 2B2 +23B2 4:9 .: ; 25*
.2 ; 253 283: 3 25+9 ; 542 4&:B' & ' ' ▯ M'
3 58' .: ; ; 2 &28.B E 5 ?9' ' 3 8:5 + EB2▯ ?9'
&25+9 ; 52 4&:B 23 4& M9B▯ 25+9 ; 5 '+2 4 3 B:R 8:5
B4R 9 ; 2 42 G2+28 GG +28 ?92 +' R 83▯ 9' '
'S ▯8' 29 .+28 23 25+9 ; 54▯ ' '6 !
'B ' / ' 'S ▯8' 2 E2BB2 283 +2 < 5.2 9 49?92*
:5 3&29+9 ; 52 H+2 52MI 2 E&5 283 +'.:9+29B :53
:5 3& ' <2 53 58' <+98 B:9J2 ?9&952 J9 J52 5 G9*
E 53 49 ; 2 +29B▯ '+ 'LL AE ▯8' 882M 3
< B3 ' E 529828 3 E2B528▯ ! 982 9A B4 58▯ 42
B:9J2 25+9 ; 52M▯ ' ' ' 29A ?9':53 =2*
B 34 428 G29B28 49 29 B:R▯ :53 ; :583B4 3 +29B8 *
; + 2B8 3:98 .29A ?9' 8:53 5: ; ; 48 25 .2 .= < 3B2▯
23 25+9 ; 548 25 .:B42+ 2B8▯ '1!- ' ▯ C
-' (! ' < -'"▯ 23+2 + 3 5 7 - #'4.+ B2B QE:R'
! 9A/ <B:E25?' - 7 - #' - &7 - #
! ▯ 'Q 5*+9* ; *529B▯ 52 *M&/▯
8' ' 23 ' 2+9 ▯ .2+2 ?9' 25+9 ; 52' 5+9 ; 529B
4& ; J28
-'# ▯ A5 ▯8' 2 8:53 +28 ; 283 2B8 B 58 42 +'
+2 42 B 8▯ ?9' 52 4: E253 <: 53 42 J923 9
B:R '< 53B28▯ R ; J 2B8▯+ GB B28▯ < B.=2 ; 5 2B8

25+9 ; 529B8 '+5'" ' '" N'LHA56 8' '@28*
3: 8 JB 54 25+9 ; 529B 42 ; 28* .3 :58▯ 3 & 4E25*
39B2 B2 ; G BB2B: 8 @2 G 25 .28 B2<B:.=28▯
'' 1$
' '< - 7 - #' ▯' ▯
! 'Q 5*+9* ; *53 *B&/▯ ' 'LL ▯ .4:
4&25+9 ; 52B▯ B342 25+9 ; 529B :G@2325+9 ; 54'
&25+9 ; 59B2 42 G2332 283 ; <2 + &283 < 8 8: J542'
2+ '5&283 < 8 <2 53▯ .2 5&283 ▯?9&952 2<+ ; 59B2
' : ;'428 <2 539B28 ?9':B5 253 93B2 : 8 +28 ; *
598.B 38' LL T' B 2A3258 :5▯ .:+:B 3 :5 B:9J2 23
GB ++ 532▯ 89B3:93 .2+2 49 E 8 J28 '5&283 < 8 ; : 58
.:559 < B +'.:5 98 :5 23 +28▯3254GB28 42 8:5 28<B 3
?92 < B 4.+ 3 23 25+9 ; 59B2 42 8:5 E 8 J2▯ N'
'D # !-' LL F▯ J' 9A 42+ 34 58 +2 83R+2' 28
25+5 ; 59B28 ; &:53 3 3:B3▯ '0 - › '-! '
!7#' '0#!5 5 ' 28 G2 9A 4 829B8 49 5:9E2 9
83R+2▯ $9 ▯ < B 42 G M BB28 443:9B8▯ '3 53 +2 3:5
42 +' 5 39B2▯ 4< 54253 89B 3:98 +29B8 4 8.:9B8
& . 44 ; ?9&2 25+9 ; 59B2▯ J ' 1& ##7 '
:98 4: B:58 3:98 +28 @:9B8 839< 42 ; 253▯ .: ; ; 2
+2 E4B 3 G+2 .:+:B 8 42 + 'JB 542 23 89G+ ; 2 ; :B +2▯
25+9 ; 59B2 4&952 <23 32 ; 43 <GR8 ?92▯ 988' 9882
4 58 828 <B 5. <28 ?9& #98: B24 58 828 .:584?92 3.28▯
* A▯ < '0 # 'U<75# '3'0 ▯ <' F"▯
4 58 M #' 2332 25+9 ; 59B2 49 83R+2 ?9&:9
4:552 <:9B 49 .:+:B 8▯ '< ' 7#' '
/! A' <75'3' ▯ <'"N"▯ 4 58 7 ' :5 83R+2
283+2<G 8 < B 3 ; :44+2 49 ; 9E 8 J:"3 .&283
253:B3 J2 +2 <+98 3 J 53▯ 25+9 ; 59 ; '+'<+98
42▯ '# ▯ 1!## '3▯ ▯ <' ▯ 4 58 '
- 98▯ 9 ; :3 - !# /
-'# 'A (6 8' + R +-(% "% 0((-(% 4&!(-"!'('2'-(@
3 9A▯ 4-"2"(' #!"/&! +-/"!'"' #"' 4&!(-"!'(' #".-("('
4"'-"(' "% 0!%'"(' 4-"2"(' #"' 4&"''"'-"(' " ' "
< 7B'4'Y
' '< - 7 - #
3' 'Q 2*55 *N*32*B *4&/▯' ' ' 2B ; 2
4& 53 ?9 34 JB2.?92 8< .2 42 529' 58'LL 332 ?9'
:5 . 3 2GB 3 3:98 +28 529' 58
''X 8X <+.▯ 42 X 2 ▯ 529 ▯ 23 +A:h▯
<542
' 'Q 5*5 *84▯ 5'<B:5:5.4 .: ; ; 2 4 58
534B 29B/▯ 5' '32B ; 2 42 <4:=2' ! 233B2 4 58 +'
5 882'LL J' B: ; <2B
'S 6 8▯ '5 8 82 + 882B 255 882B 25 5 5 8
23 52A<+ . G+28 4 8.:9B8 ?92 +29B8 =232B: .+ 328 23
BB28:+928 :9 <+98 3:83 : 28 .2BE2++28 8:53 .:9839*
; +2B28 5E2532B▯ <:9B 889G@2.3 B +' :R 3+ 'B 8: B
5 39B2++2▯ : 'C '& !#' <' "7C▯ 4 58 :'
: :' '< ' 23 -
3' ' '<B4 A2 ?9' E293 4 B2 529' 23 ?9'
E 253 49 JB2.' 4X3 'QE:R' - '5: ;' 42 5: ; GB2/
3' # 'Q4*554* *\ 5* /▯ 6' 2B ; 2
4&= 83: B2 5 39B2 2' $9' 283 ; 95'42 529'4< 528 :9
4J9 ++:58
-' (! ' < - - 23 A:E4 ▯ 4< 52
j' 3 'Q4*554* *4 *\3* /0:4@ 2B ; 2
42 M: :+:J 2' $?' '529'4: J38 :9 <<254 .28 4 J 3 *
:B ; 28
' '< - - ' 23 4M 9S:?▯ 4: J3
3' 'Q4*554* *4&/▯' ' ' 2B ; 2 4 4 .3 ?52'
882 ; G+ J2 42 529'.=:828 :9 42 529'<2B8:5528'
' 9 <+9B ' 28 554 428▯ 3 3B2 42 +'.:+2.3 :5 428
3B 348 42 +:3 5
-' (! ' EE2 3.▯ 529E 52
3' 3+ 'Q4*554* *44*\ *4*34*B *
4&/▯' ' '▯ 2B ; 2 42 .=B:5:+:'2' R.+2 42 4 A*529'
58 43 G+' < B ! 43:5 3 3=4528▯ <:9B B2 .:+5. *
428 +28 ; :9E2 ; 2538 49 8:+2 + 23 42 +' +952▯ < B.2
?92 4 A*529' 5:428 8:+ B28 +253 3 3B48*<29 <B48
% +95 8:58
' '& X 4 ▯ 5293▯ 4A ▯4 A▯ 234B:?▯ 5542
3' ▯ 'Q4*554* *J:*5 +▯ 5 * /▯
6' 2B ; 2 42 J4: ; 43B 2' $9' '529' 5J+28' = ; <
2554 J:5 +' J9B2 2554 J:5 +2'LL + 82 4 3 988'
4&95 8:+ 42 4:53 +'G 82 283 95 2554 J:52' RB K
; 48 2554 J:5 +2' B 8 ; 28 2554 J:5 9A
' ' :R' ; : :5
' 'Q4*954* *J 35&/▯ ' ' 2B ; 2 42
J4: ; 43B 2' J9B2 ?9' '529'.4348'LL 4R' 93B2 : 8
:5 '4 3 2554 J:52 <:9B 2554 J:5 +
-' ; '< - - '23 RWUEQW▯ 5J+2
3 ('Q4*554* *@*5@0' "; ' 2B ; 2 42 G:*
3 5 ?92' $9' '52 4 < 83 +8
' '< - - 'REE' +2 ; 2 2▯ < 83 +
3' (B 5 'QN*554* *@*5 2/▯ ' ' 2B ; 2 42
G:3 5 ?92' B4B2 49 8R834 ; 2 42 554 B25 2B ; 53
+28 <+ 5328 3 529'< 83 +8
'#$ '> 4
M' 52 (!3$ 'Q4*554* *@3*5 *\&/▯' *' R5:K
5R ; 8 4&2554 JR52

$^

' c # S c 'QN*55 ' *'J8 *4*4B&/0' ";'
2B ; 2' 42 ; 5 B +: J 2' B 83 +'255' G2A '4B20 .B 8
3 +. 9G ?92' 4 :83 .= ?92 5J+2' 8:+ 42 283 B2 ; <+ .
< B' 8 A' .23328 0 .2' ?9' 3 25' 3: 93 529' : 8' 8 A' K
.28' : 9 0. 5?9 532*?9 3B2 .28
- ' (! ' < - A * ' & B "# '
B 3 ' V'B55"* W*4B&/' ' ' :4R' 2B ; 2' 42
G:3 5 ?92 0 9' '529 '4 ; 528*
- ' (! ' < - - '23 " 5 < ' ; " 20 43 ; 52'
' Q *55 5*4B 2/0 6' ' 2B ; 2' 42
G:3 5 ?92' + 882' 49*8R83_ ; 242' 554 0 B25 2B ; 53
+28 <+ 5328 4 :53 + ' +29B '529 ' 43 ; 528
- 'F (! ' < -"#
3' +$ < V2*554* 5*4B *\&/0' ";' :R'
'
c ' QN*55 * 5*3 *B&/0 ";' 2B ; 2'
4" G:3 5 ?92' $9' '529' 53=GB28 : 9' 43 ; 528
S*' < - - '2+ - & # '
+' # + ' QN*55 * 5*3N*B 2/0' ' ' R5:
5R ; 2' 4&2554 54B 2
- ' (! ' 554:53=4B2
j' c 'QG*55G* *<G*3 *B/0 ";' 2B ; 2'
42 G:3 5 ?92' :53 + ' .:B: 2 : B2' 529 ' <43 328
- ' (! ' < - - '23 A'
3' # ('QG*554* * +*+&/0 ";' 2B ; 2' 42
G:3 5 ?92' : :3 +28 29 +28 8:53 . : ; < :8428 42 529'
:+ :+28
- ' (! ' < " ' 23 4SS:E0 29 +2'
3' (0 + ! ' Q *554* *<3"*B *
@ 5 0 @ "*5&/0' ";' 2B ; 2' 4& .G3=R:+:J 2' $9' '529'
5 J2:3B28
- ' (! ' 554: ' 23X32<4R :E0 54J2: B2
LM ' Q_*55N* *8"*< *B/0 ";' 2B ; 2
42' G:3 5 ?92' :53+2' . + .:' 283 . : ; < :84' 42529 '8"*
< +28
' C - - ' 23
3' ! . , 0 'QG*55 * *8<GB* ; &/0' ";' 2B ; 2
42' G:3 5 ?92' :53+2' B9 3 B25 2B ; 2' 529 ' JB 528
' ; 4 ' 23 JB 52
' ! ! ? * 'QG*55"*N* ; * ; N*TB&/0' ' - '
2B ; 2' 42' ; 43B ?92' 5. 2552' 289B2' 42' ?9 3B2' < 248
23 42 ; ' 2' ; :3 8& <<+ ?9 3 9A' .G89B28 ?9 '3: ; *
G3925389B+2' ; + 29' 49' . 5?9 G ; 2' < 24 0 :9' <BG8
?9 3B2' < 248 23 42 ; 0 . : ; ; 2 4 58 +2' MMAI E2B8 49 ?9 *
3B G ; 2' + B2' 42' & 5G 42' ' + ; 253 8 0 J2 ; 39?92 0
23' 2 ; 52:' 9+9+ 39' ' LL ?"; ' #289B2' 2552=2 ; ; GB2
' ' B ' YEE2 0 529 0 + @9: 9.0 42 ; 0 23<2< : .0
< 33 2' 0
30 ' QG*52* ; 0 ; 2P 49' 32 ; < 8' 42 G *
23 0 H# ' ' 32J0 + <B:5:5. 3 :5' 552 ; 323 3
B2?92' G .43G 42' & 93 ; /0 ' 23 >L 6' 2+9 0 .2+2
?9' G 3 ?92+?9&95 0 23 .=2B.=2' 3:9328 +28 : . . 8 :58
42 +9' 59 B2' 5' 25G2 ; ' 42.+ B2' 552 ; ' ; : B32+0
BB4. :5. + G+2' :B8?92' :5' E253 .= :?92B 95' <9 8K
8 53 2552 ; 0 ' C # - ' E0 ' 3' 9' 98
; :5' 2552 ; ' ; G ; 2' < 53' ?92' 42' 5 33B2 0 '1 -)'
- ' 0 3' '8:9< B8 0 N B28<2.3' N ?9& +' 283' 4 :9A 42
<+ 54B2' 2' 8:B3' 4&95' 2552 ; ' ?9 54' +' 5&283 <+98
G.B 54B2' ' ' : ; < 0 9' 30' '283 4 :9A' 42' <GB B'
<BG8 828 2552 ; 8 0 ; ' . ! " ! / ' ' 3' 0 2552 ; '?9'
3+ 33228 3 '2' <+98' 4 5J2B29A 0 @5' , & ! " ! # ' E0' 3' '
B:3B2' 2552 ; ' ' ; 0 4 :552M*+9' G' ; 5J2BP 8& + '
8: 0 4 :552M*+9' 42 2 9' GG :+B2 0 8 0' D & 0# "5'
" '@ ! ! - ' AAE0 - ' 2' <+98 +2B' 255 ; 5 0 ?92+?92'
B429B' ?9' 25 + ; ; 2' : : : 0 K #(7 ' !7#'
' " ' :3B2' 2552 ; 0 .&283 5 :3B2' ; +3B2 0 >:' E : 98+2'
'8' 25' G :5' B 5? 8 0 ' I ' < ' - ' F' 5+B2'
5 :8' 2552 ; 8' 28 <+98 G .B B54B2' 8 :53 8 :9E253 +28
<+98' <23 38 0 5' '5 0' 7' 25' 0=&283 8' 4 5J2B29A'
?9&95' J5:B 53 ; P ! 29A E 94B 3 95' 8 J2' 2552 ; 0
' 3G ' E ; 0' 3 :' 25 2M E : B' 'E:8' < 248' 3 : ; G2B'
2552 ; 8 0 ' ? & '5' ' 2' .B J 2M' <+98 F E:3B2'
2552 ; 2' 2A< B2 0 ' @' E0' V ' EB2' E2:' 828 29*
52 ; 8' . : ; ; 2' 8& +8 42E 2:3 95' @: 9B G3B2' 5:8' ; 8 0
23' E EB2' EG.'5:8' ; 8' . : ; ; 2' 8& +8' <:9E 253 42E25 B'
5 :8' 2552 ; 8 0 5&283 5' 82+:5' + ' 5 39B2' =9 ; 52' 5'
82+:5' +28 BGJ+28 42' ; 3 G0 ' $' 9' 5' 2552 ; '
59 3' <+98' ?92' .253 ; 8' 52' 82BE 53 0 6 '
0 " ' # ' ; 5 GB2' 4& J B0 ; '.B 3 ?92' 23 ; 28' B 8 #& 3'
3 B2B 253 G 25343' 95' ; :542 4&2552 ; 8 0 " '
! (# ' 0' N' :3B2' <GB2' 23 ; : 0' @2' E:+ 2 0 5:98
E :58G3G +:5J32 ; <8' 2552 ; 8' 95' 42 893B2 0)
A 'O' 5' 2552 ; 0' 4 3' 95' .G+2GB2' 9329B0 83' 95'
8: J529A234 : .32' <B' '<329B 0 G. =29A' < B :38 0 ; 8'
3 :9@ :9B8 8 +93 B2' 3 ?9' 5 :98' 82B3 8 58' J J2' 5' 8 *
+ B2 0 B' ' ' 9 0' " ' :B8?9&:5' 4 3' 4&95'
G : ; ; 2' , !! ' '428 2552 ; 8 0' +' 93 0 E 53* 42' +2'
@9 J2B 0 G 25' B2J B42B' 8& +' ' ; GB 3G 4&25' E : B 0 P
! ! , H&#+' K ' 5 - ' >& ' 428 2552 ; 8 0 ; 8' @2' 52
G 8' <2B8 :552 0 6BB ' 7 , C " ' " > "7 ' < -)
- ' / - "#' 0' N' LL 5' 2552 ; '@9BG 0' .2+9' ?9'
' 3 . : ; ; 2' +2' 82B ; 253' 42' = B' ?92+?9&95 0 8
8 :53 2552 ; 8' @9B 8' LL 2' B2' 428 2552 ; 8 0 4 :5*

[illegible]

952832 '+' 2' ?9& 9' +8 0 5' U<" ' ' ' 28'
?9 + 3G8 2A .288 E28 5 :98 8 :53 2552 ; 28' 23 5 :5' < 8'
8258 G+28P 5 :98 52' +28 8253 :58 < 8 0 5 :98 +28 8 :9 *
B : 0 ' 0 - ' < B3 0 0' B3' " ' $9& + 8 : 3'
. : ; ; 2' +2' B9 3 25' 5 88 53 BB .=G0 3 ?9 0 95' 8 :9 +2'
2552 ; ' 4 58 8 ' +29B '8G .=G0 ' ? & ' ' >2'
9 8P 58' +2' E253 + ' :B3952' 2552 ; 2 0 ' C &#'
+ 0 ' ' 83B2' 2552 ; 0 82' 4 3 0 < B 952' ; G3 <= :B2'
3 BG2' 42' 83B : + : J 2 0 4&952' 5 +925 .2' ; + 8 532 0
4&95' 4283 5' 952832' :98 ?92+' 83B2' 2552 ; ' 93* +'
?92' @2' 8 : 8' 5G2^' 7' ' &# ' ' ' 28' 83B28 2552K
; 8' @&25' B 58' ; : 58' +2' . :9BB :9A 0 '< & # ' 7 ' C
' 28' ; 2' 42' <2 539B2' 28' . :9+29B8 2552 ; 28 0 . :9*
+29B8 ?9 ' 52' 8& 88 :B3 88253 < 8' LL 5' 95' 93B2' 8258 0
. :9+29B8 ?9 0 ; G+G28 2582 ; G+2' 89B + ' < +2332 :9'
89B + ' 3 : +2 0 82' 4G3B9 8253 952' 93B2' ; 3GB 2+2*
; 253' 23 25' <29' 42' 32 ; <8' LL G+28 2552 ; 8 0 +28 <G+28
?9 ' 82' B2< : 988253 0 25' < B+ 53' 428 ; 538' LL B : *
E2BG28' 2' ; 29A' 283 2552 ; ' 49' G 25 0 :5' J 32'
8 :9E253 .2' ?9& :5' .=2B .=2' 3B :< G ; G+ :B2B' LL +9842'
; :B38 0 ; : 58' 4&2552 ; 8' LL &283 93 53' 42' <B 8' 89B
2552 ; 0 82' 4 3' ?9 54' :5' ' 33B <G ?92+?92' .= :82'
G .2+9' ?9 0 5 :98' 42E 53 0 52' 5 :98' < R2' < 8 0 :9' ?9 54'
:5' ' B23 BG ?92+?92' .= :82' 4&952' ; 9E 82' B2'
! 8 G 25' ?92' + ' 4 :9+29B' G :5 :B2 0 $92' 82BE B 4& *
E : B' JG ; ^' 9 8?9& .' 5 :98 B :58 25 . :B2 0 93 56'
42' <B 8' 89B 2552 ; 0 ' A# '(& - ' LL ; 8'
9<BG32B 0 2552 ; 8' 9' B254B2 0 :&283*G*4 B2' ?9& :5' 82'
GB : 9 +2' ?9 54' .2+9' ?9' ' <BG3G 42' BJ253 +2' B242*
; 542' LL ' 5&R' ' < : 53' 42' <23 3 2552 ;
- ' # ' J8' :+4B253 + ' E2 53B2' ' 2 :' 5 ; '
H+28 2552 ; 8' 42' 291 0 <7 ' LLA 6 8' ' B2 8' ! B*
8 +2 283 ; :9+3 ; 8' 252 ; 8 0 1& ' " '. 1 ' B ' LLA 6 8' B'
G' ' 2+8 HR29AI' E22M' +28 252 ; 8 0 D ! - ' ' ' B'
?9' .2' 3 :+3 B E 3I' 4 :53 H +I' 52' <293 B2' 4 :5 0 ' - '
. :5?9 2B3 H&25' 3I' 252 ; 8' 23 ; 2+G2 0 :9B3 0 E '
& :B' + 88 :58 H25+ ' 2BB2' 8 532I' 5 :8' 2552 ; 8' ; :B*
3 298 H ; :B32+8I 0 S' 3 :98@ :9B8' ; 8' 2B3 H82B I' 5 :83B2'
E 2' = :5329820 " ' :59352' <') ' &' 0' <+98
4& 52 ; 8' ?92' + 2EB28 25' 288 B3 H25' + 542I 0 @ B'
' J8' ' B : 8' 42' #9 JB 2 0 ?9' 52 ; 8' 283 : 3'
G .298 42' :83 0 ' ' ' 2' 8 :9 B2M ?9& 52 ; R'
H+2' 4 2I' 3' 858' B : ' < :283G0 2B32 0 A9B' 5E 2'
283 42' 32+' .B9 93G' $9&2+2' 52' < :B32' +2 93G S' . : ; < *
J5 :5' 52' G . : ; <G J52P &2+2' 5&' ' < B253 0 3 53'
3 25J52 0 S' .9' 2+' 52' 8 : 3' 52 ; 2 0 ' D ! ' %
' A E6' ' :E : 2B' E . 9 8R' 9+3 23 ; 542B' < B' 2825<8 0 L
< :9B' 8 E : B' 8& +' E :+4B' 28 B2' 5 :8' 52 ; 8 0 H7 ('
7F7N' 3' :5' 4 3' 4G8' ' G 9M' ; 8 0 2' <+98' 4& ; 8'
; 58 H ; 58I' 4& 52 ; 8 0 6 6 ' <' 3 2' LL AE6 8'
29B E 3 283G JB 54' 2552 ; 0 ' ' " ' " '
9 8' 82' 23 +:B25 .2' E 253' 283G 3B : 8' .258' 58'
2552 ; 28 0 E 53' ?92' +:B253 58' + ' . :5?9 882530
7 'E ; 0' ' 552 ; R' 52' 4 :B3 0 1' " '
0#!5'3'5 0' <' 7' ' AE 6 8' 2' 2B :5 : 8 0 32BB2' 25K
52 ; 2' H428 2B 3 2581 0 ' ' " ' 2332<B :3 ?92 0
2552 ; 2' 42' +29B' 83R+2' 5. 25 0 ' ' >2' 89 8' 25*
52 ; R' 428 .3 :58 89G3 +28 23' 2 5328 0 " ' 0' 7N' 5*
52 ; R' @9BG' 42 ' " ' ' % Y ' 2' 8 :5' 2552 ; R' +2. :5*
. :5. + G' +' 82' 93' J B42B 0 1' " ' ' 0#!5'
3' 0' < ' FFC
- ' (! ' 2BBR 0 & - - ' - - ' - - -3'
<B :E25?' 52 ; 32P . 3 + ' - / 3' 28< J5' - / ! 3'
< :B39J 0 - / ! 3' 3 + ' - ! 3' 49' + 3 5' - 7 '
42' 35 0 5GJ 3 0 23 (7 ' ;
' S ' Q 5*5 *++ *&0 ' ; : 9 +G28 0 23' 5'
<B : 5 :52G . : ; ; 2' 4 58' 53GB 29B/0' ' - ' 8 :5' 42'
BGB2' :9' A2' 3 :9BG 53' E2. ' + ' ; 23+2' 4 58' 95'
35 : 9+ 5
- ' (@ ' B J 52' 5. :5592' &283 +2' ; G ; 2' ; :3'
? 2 - -
0 'Q 5*5 :*G+ 0G+ 2 0 5' <B : 5 :52G . : ; ; 2'
4 58' 53GB 29B/0' < B3' < BA ' 2549' 5 :G+2 0 = :5 :K
B G+2' 2 B5 882' B 5? 8 0 255 :G+' < B' 3 ' B2 52 0
:53B2' 3 : 8' .28 . : ; <+ :38 8 9B '82' ; 5325 B 0
<' ! ' & 4G242' 3G+2882' ?92' +28 G : ; ; 28' 33 .=253
G + ' E2B39' 3 : ; G2' 4G8' ?9&2+2' 283' 255 :G+ 2' 42' E :C
5 : ; 8 H428 JB 548I 0 '0 ' #' (' '5 # 7 '
:5J2M254G 53+& 5J+ 823+2832 ; <G328 0 $92 0 8'
E :98 <B : 4 J92M E :3B2' 8 5J' JG5GB29A 0 2' 5&283 < : 53'
< :98' 32532B' 95' 42' .28 E :+8 G29B29A' 55 :G+ 8' 49'
5 : ; ' 42' . :5?9G328 0 ' " ' '7# ' '/7 ##
' Q 5*5 :*G+ B 0 5' <B : 5 :52G . : ; ; '
4G58' 53GB 29B/0 P' 'LL I' :552B' 4 :' + ' 5 :G+28G2 0
42' + ' 4 J33 3G' . e ' .2' J+ :B 29A' + 3B2 ' $92' @2' E 258'
255 :G+ B' < B' .2+9' 42' . <3 0 ' 0! ' 5'
2' . :29B E :94B 3' 3 :9@ :9B8' 255 :G+ B' .2' ?9& +' ; 2 0
0 / - ' ' ' ; G 3 29A' <258253' ?92' +28
53GBG38' < :+ 3 ?928' 255 :G+ 88253 23' @983 +253' 3 :93 0
!06 ' 7 ' - - ' " ' # - (' < B3' 0 0 <' 0
4 58' G ' LL G8 :+9 ; 253' 2332' B J2' 4&25*
:G+ B 0 .2' @ BJ :5 0' .2' 3 :5' 42' . :9B' 5 2 .3 3' .'
3=GG3B2' 23' + ' + 33GB 39B2' 8 :98' : 9 8' S '23' 42<9 8 0

M

J B253' 4&2A.2+2338' 28<B 380' < ' ' ' '
" * 'NN= &2 5:G B0E B4[^ J52B42+ 5:G+28820'
42' + ' 4 J5 0' 42' &=:5529B' 3' 4 58' +28' <+98' G 8'
B 5J8' +28' 5: ; 8' +28' <+98' G@2.38' 53' * '8&255:G+ B'
< B' 42' 8' = 9+8' <B:@2380' ' E0' ' 3' +2'
3B452' 23' +2' B:' 82' 82B 253' 255:G+ 8' S' 8:9325 B' + '
; 5' ?9 ' +28' 'B43 G+ 80' '0 " ' ; 0'
-' ! ' 58' +2' AE 6' 8 ' .+20' :5' 52' 4 83 5J9 3'
< 8' 255:G+ B' 4& 5:G+ B' ! 8:5' '+2' E253B2' 255:G+ 30'
? 'H' D -" ' 0' P' 2' B:' & R 53' 2<:98420' + & '
255:G+ 2' < B' .2332' 4+ 5.20' '# '# " ' ! 8'
.'@& ' 42' <+98' 95' JB 42' ?92' @& '<B 8' E2.' 29' ; :5'
; B 0' 4:R25' 42' .2' G ++ J2P' &283' 58' ' ?92' @2'
E 58' ; &255:G+ B' 9' E ++ J2P' :552' 5:G+2882' 9' :540'
(0 ' +, ' " ' / ' '3' P 5' 4 83 5K
J92' :B4 5 B2 ; 253' 3B: 8' 42JB 8' 42' 5:G+2882' ' &25*
5:G+ 0' ?9 .?9 2B3+ ' 5:G+2882P +2' 5:G+20' ?9 ' 5 +342'
&255:G+ P &4.9R2B' :9' +2' J253 +=: ; ; 20' ?9 ' 283' 9'
J 42JB40' ' # ' # 1 ' 9@:9B4&G9' 952'
4 83 5.3 :5' 8&283' 43 G+ 2' 253B2' .28' 429A' ; :38' ?9& + 52'
93' <+98' .:5 :54B2' 255:G+ B' .&283' 4:552B' 42' + ' 5:K
G+28820' 49' +983B2P 5:G+ B0' .&283' 4:552B' + ' 5:G+28820'
B254B2' 5:G+2' 5' .: ; <B254' 4& 3+29B8' ?92' 255:G+ B'
23' 5:G+ B' 8:53' 429A' :B3=:JB <+ 28' 23' 429A' <B:5:5*
. 3 :58' 4 4B25328' 49' ' ; :3
-'# 'S 68' :98' B25:5.2:58' 9A' 9+3B28' 5 *
; 9+A' +28' G 258' 5 39B2+80' <:9B' 5:98' =:5:B2B' 23'
255:G+ B' 428' G 258' .?9 80' ' 50' K 0' : ; ; 253'
; 233B: 8*@2' + 8828' 25' ; 9G+R0' $9' 42' E2B39' 4 E 52' 283'
255:G+R^ ' * ' ' ' '$& '8:
-' (! ' > ' ' 23' 1
5' Q 5*59 0' 5' <B:5:5.4' .: ; ; 2' 4 58' 534*
B 29B/0' ' ; 'LL :9B ; 253' 42+& ; 2. 984< B' + ' ; :B3'
42' <2B8:5528' ; 4280' < B' +29B' G825.20' < B' + ' <2B32'
4&28<4B 5.280' < B' 428' ; +=29B8' ?92+.:5?928' 2'
B:' ; 4 ; 2' BB E 53' < B3 J2' +29B' 2559 0' 'Qcb'
" '90' ' ' ; +JB4' .28' B 8:58' E:3B2' 2559 ' <2B*
84E4B20' ! :5' .G2B' 4+ 20' 9' ; : 58' 328' ?9& + 82'
B :4GB20' '$& , '90' " ' 4 29P @:' 8258' ; :5'
..29B' ?9 ' 82' J:5 +2' 4&2559 0' " ' 1' &283' 42' 3:98' +28'
2559 8' &2559 ' +2' <+98' 8258 G+20' ' & '
; 0' ' 3' .2' 82B ' 42' ?9: ' ; 29A' .: ; G+2B' 8:5'
2559 0' 5' 3G' E0' ' 2' 5&283' ?9& E2.' +2' 32 ; <8'
?9&95' JB 54' 2559' 82' < 8820' C ' A ' * + '
' ' 5' :9' B2 ; <+' 4&2BB29B80' ?92' +2' 3B:9G+2
..: ; < J52 ' 5' E 5' ; :532' ' .=2E + ' <:9B
3B: ; <2B' 8:5' 2559 P 2' .= JB 5' ; :532' 25' .B:9<2' 23'
J +:<2' E2.' +9 0' ' " ' E' ' ; :B3' E 5.2B'
+ ' 45' 42' ; 28' 2559 80' ' & ' 0' ' :9B' .: ; G+2'
4&2559 0' ! :5' ..29B0' ; :5' + .G2' .:29B' 8& 534B2882'
<:9B' +9 0' 'I ' ! ' ' :9B' 2. G+2B' 8 B' 4&55'
432B52+ 2559 0' " ' ' E0' F' 25' 52' <293* + .= BK
; 2B' &2559 ' ?9 ' E:98' 44E:B2^ " ' ' '90' " ' -
4&952' ; 4B2' 25' <+29B8' E:98' <+ J52M +28' 2559 80' " '
$" ' 0' " ' =3' ?92' 4 8*39^ <:9B?9:' B < ' +2B'
; 28' 2559 8' ' 9 'U ' 0' V' ! 8' 428' 2559 8'
4&# ; +23' ?92' 93* + ?92' @2' <2582^ $9 ' <293' 42' 828'
3B 58<:B38' JB B' + ' E :+25.2^ <9. 80' ' 0' 0'
' 2' 283*2 2' 3:932' 9A' 2559 8' .:54 ; 542' ^ &= *
E2B' 52' Q4 .2' <: 53' 3:98' +28' ; : 8' 42' & 55420' ' 7 V
' C' ' :53B B 4 4' 2332' B2' +9 ' '
4:554' G2 9.:9< 4&2559 0' c3B2' .. G+4' 4&2559 8'
' 6' :B32' 42' E 42' ?9 ' 82' 3' 8253 B' ' & ; 2' <B E42'
4& .3 :5' :9' 4& 534B43' 9A' .=:828' :552B0' . 982B0'
E: B0' 4<B:9E2B' 42' &2559 ' 5' 2559 ' ; :B32 ' = B ; 2B'
+28' 2559 8' 42' & G825.2' $9 54' :5' 82' E2BB 3' ; 4 ; 2'
882M +& GB' 42' 3:9328' < B38' H428' ; 84B28I0' &2559 0'
42' 8:5' 93:B 34' <B E420' 52' + 882B 3< 8' 42' 8:B3 B' 49'
..29B' : + + ' 428' B . 528' 5 39B2+280' 23' 42' B2 ; <4B'
&28<B 3' 42' 8:5' E25 50' '0 ' 3' 0' <' MM'
44 3' =9B2' 58' D B 253' 4482B3' ?92+ 42E 53' ; :5'
2559 ' ' ' 0' " ' &2559 ' 283' 253B4' 4 58'
+2' ; :542' < B' + ' < B28820' ' :9B' + ' 44+ *
. 32882' 23' & 2.3 3 :5' 4&2559 0' + ?3' + ' B4<B ; 2B'
25' ; :53B 53' ?92' +2' G:5' J: 3' .:58 838' '8& ..: ; *
; :42B' 428' .=:828' 82+:5' ?9&2+28' 8:53' 93 +280'
> , ' ' V ' 2' <+ 8 B' 5:98' 3' :9G+ 2B' ?92'
5:98' 2A 83:580' &2559 ' 5:98+2' 3' 8253 B0' ! 1'
> '0 ' :> , / ' 3' E0' <' M' 4 58' "
&2559 0' .2' 3B 832' 3RB 5' 42' 3:9328' +28' ; 28' ?9 ' <25*
82530' .253B2' +2?92+ + ' 8 J2882' <293' ; : 58' ?92' + '
:+ 20' ' . , ' ' >2' 52' 8 8 8' ; '3432'
283' @29520' ; 8' ; :5' .:B<8' 283' G 25' E+29AP 8' @2' 52'
; & B598 8' < 8' B8' 428' 3283 ; 25380' @2' 82B 8'
G 25343' ; :B3' 4&2559 0' 9 ' = ' &&? ' V'
; B8' GAMX' + < B30' E :+20' BB E20' &2559' 2' B2.: 3'
' + ' JB ++2' 23' 82' 3B +52' E2.' +9 0' " ' ' '
* " ' ' :8 52' ' &2559 ' ; 2' 392' ' ' J B:' '
>2' +2' .B: 8P + 5&25 ' 882' ?92' +28' 8:380') V
' ' 1' '# / ' 0' ' &43 3' 95' B 882 ; G+2*
' ; 25342' .: ; ; 4B J280' 952' .:++2.3 :5' 4&2559 8' 3:93'
' + ' ; 8' 4 E2B8' 23' ; :5:3:5280' 6EEB " ' ' '
' (') ' E2' #: ; 4B2+ ?92' 29' 5:98' J B42

%#"(-/70&("% #"((20'(' % #!' (! ; &-+'" " / / ! -
#! ! /' ; 0'#" Q! - 260/%" 0!' +-&-"! ' #" (; '*! -&&0'#(7
$ ' " ' # * ' , C ' ! " ! / '%'#/ " 1" / / ! - ('
20' ' " -" " #1"%' ' " "/2"/(# 40" #"((*%(' #
0 * ' . / 'NN 7*#%#" %*!%' * + ; " " #0/(
! /' " / / ! -4'*$*/#' 1" / / ! -#" &0 .-" ' NN ? &0/2*&-"
.07! " ' 1" / / ! -#" /" U&" 6 '*(#! ! /' '*+0/'#" 60K
%"0! ; ' -0/#J' !' '*+0/%-(+" 9" ! /' " 044! -' "(2"/#(
#" %"(/ ! 07"(5 "(%*' ' " /%(' %"(*'07"("-7/"/%
%*/' $'*/%#! ! /' 4 &" "/ / ! -' # '9 ,1 , '
'(, ! " &" 7'0/# 8'/' 0&&0-% , ! -%%" " 0. " / /" %
26" '2 ; " ' (! ' &"(+" ' (, ! " &, ! " 4&07" &*-/%0-/"
#/-" "/' 6 '*((*! ' -++*'%"& " / / ! -' ' " '
0 ' , / ' = ' ' =
V' ?' 58' +2' 83R+2' B2+2E 0' 2559 ' 283' 95' ; :3'
4&952' JB 542' :B.2' 23' ?9 ' 8& <<+ ?92' '3:9328' 8:B328'
42' 8:9 B 5.28' 42' & ; 2' ' +28' 2559 8' 49' 3B452P 428'
2559 8' .9 8 5380' 58' +2' + 5J J2' :B4 5 B20' + <2B4'
G2 9.:9< 42' 8' :B.2' 23' 82' G:B52' ' 4 8 J52B' .2' ?9 '
3 < B +3B2' +2' 32 ; <8' + :5J
-' # 0' A 6' 8' 9 ; 2 ++ ' + ' ; 2 2' 52 ; 2' H ; 2I'
<9B' 2559 ' = 1 ' " ' <' VF" ' ; :B8' ; & ' 3' :9*
G 2B' &2559 ' ?9 ' +:5J' 3258' ; & ' ; :B30' , ' E ' 2'
+ ' 2559 8' 42' + ' J253' ; +< B+ 2B2' 2' ; 2' 2 83' 4:9+: B'
3G' AAE + ' ! 8' 42' .=2E J2' <B254B2' 283' ; :9+3' JB 53'
+' 5: 8P S' 3:B3' 23' ' <2.+ ' ; 28' .+ ; ' B 5.: 80'
' AE ' ' <B2+ M 4& 9B2 X 20' 2 + 42' :54B280'
?:' ?9 ' H@2' <2582n0' :582' 7 +9 ' 953' 49 '<B E 2 ; 253'
549 ' H3:98' 429AI0' $920' E2 53' 8 ' JB 53' J2530' 52' + '
28 83' 59 0' 9 ' ' " 'LLA 96' 8 ' &2559 ' 23' 42'
< :9B' 89 ' 9' .92B' ; :93' 4283B: 320' ' 77 7'
9B8' 52' + :5' 5&2830' 52' G2832' 8 9E J2' $U9 0' 32+ ' :M
2830' 52' B J52' 8:5' E:9+: B' 2' B2' ; + 23' 2559 ' 23'
4 : ; J20' ' ' ' 4 58' ,* ' B'
254B: 3' ; : ' *@2' 5.20' $92' 8:5J2' 8: 3' 8252 5.2'
28' G 258' ' J258' 23' 428' 59 80' ' :820' VC' 3' < B'
.2' ?92' .2' 82B: 3' 3 ; 8' 42' 4 B2' 23' 42' 8<2. 2B' +28' * '
42' .B 2 ; 20' + 82B:53' 4 3 2+ . < 3B2' 428' ; 2 80'
O ' ' ' 4 2530' <:B' 2B2' 5:' ' .2A' .:53B2' ?9 ' + '
:53' ' <+24 2B0' ?9& ' 3254253' +29B' .:582 +0' " ' NC'
'O I' 8' $9 ' 2559R' 3' 2559R' B2?9 2B30' 3' 2B98'
4: 3' 283B2' ?9 ' 2B30' ' " ' '0 / '3' 50'
< ' 7 ' :98' 25' 4 B:58' 9.9528' . 9828' 23' 5:5' < 8'
3:93280' <:9B' .2' ?9& + 5&2983' 259 2' 42' .29+A' ?9 ' .2832'
= 83: B2' + B: 2530' ' # ! ' 3' 90' 6 N 0'
4 58' 6 '>> B' ' $9 54' ! 288 B2' >2 5' 42' #:+K
+ 548' 93' 5 :B ; ' 42' .2332' E2539B20' 8' .9 4 ' G 25'
:B.252B' 4& 55: 0' ' ' ' N' H 2' B:' ' :G2B3'
4& 8:.8821' 882 ; G+2' 8:5' .:582 +0' 23' +29B' B2 ; :58*
3B ' .: ; ; 253' +28' 5J+: 80' 49' 32 ; <8' < 88 0' +29B'
E: 253' 3 ' <+98 29B8' 2559 80' " '50' 50' V ' 5?
8:98' :53' 93 530' $9 53' :5' 283' .:53253' 3' ?9& : '
@2332' +28' 2559 8' 2 B 2B2' &=9 80' $92' 4&28.98' +28' 8 .8'
3:98<+2 580') 'AAA A' LLAE 68' 23' 3' 2?59R' 95'
JB 54' 2559R' << 82P B2 0' 8 58' 2559 0' 3B:< 42'
82B: 3' & 820' ? ' 0 F ' 2+2' 2559R' .2 'B: 30' " '
F ' $9 ' <:9BB: 3' B .:532B' &2559R' ?92' @2' B2.290'
$9 54' 42' 89B' ; :5' J B:5' 3:93' B: 4@2' & <<2B.290'
" 'C7V' ' @2' ; &254 :B8' ?3+ 54' ; 28' 2559 8' ; 2'
3 2552530' >2' 89 8' <2B49' 428' 8:5J28' ?9 ' ; 2' E 25*
52530' %0 ' ' / * ' ' ' ' / , ' ' 559R' 25'
5' +2' @ 9B' <B:+:5J80' # ' ' * '3' 0' < ' F'
559R' 59 3' 23' @:9B' 59 30' 1' " ' '0 /
%' ' < ')M
? " ' '8' , '4'*. "/ , ' ' '
, 4' ' ' ' ' ' ' ' ' ' "%0! $ @
+-/-/ ' " / !"90' + ! "%0520%0&' " / ! %45"(407/ ' "%4*'0
%!7' 6 '-%0&' 6 '0/2' -%0&' 6 ' ?*%-+4*'%0/%'
+0-(#!*' -7-/" #*!%" ! (" / &"%-' "*'#-/0-' "+" /%#! '
&0%-/' 7 '*!' 7 '%"'%' 4'"9!#-2"5 +0-(&0 $*'+"
#"(+*%((" 4' %" 4" ! ' '2"%%" %8+*&*7-" ' 4! -(, ! "
7 '*!' 7 '0! '0-"/%#" / ' ' ! ' 0! @
'-"& 4'*4*(" &" ; 0(, ! " * ' +0-('-"/ /"70'0/%-%
, !" ' /" (*-% 40(. " / ! ' #" 1"(407/*& #0/(&"
; 0(, ! " ' * ! " 2"('0-(*/(' -"(' (" 9*-7/0/%' ' 0K
; " " 0' 4'*4*(" &0%-/' *#-! +> "(% + -6--/ *#-*' 2"&0
+1" / / ! -"5 #!*! ! / (/ ; (%0/%-$-/*#-! + ' , ! -4" ' +"%&0
#" '-.0%-*/ #" %*! %" (&"($*' +"(' '*+0/"(' 1-%0&-"/
6 ' 080/% 4" ' #! ' ! " 40" ! /" 04 ; ' (" , ! -
/1"(%(40('0' " #0/(2" %%" &0/7! " ' ' , ! - #*" / /"
; "0! 2*! 4 #" $*'2" '2"%%" %8+*&*7-" ' 21"(% , ! "
(" %*! . " "$$"2%-." +"/%#0/(10/2-"/' 40'&" " . @
/-%-"/ ' #*/% -"< '044*'%" 2"(" : " +4&"(@2-> " , '
' ' "/' -%0&-"/4-#D-' * / *' ' 6 ' " / ' $'0/@
20-(4&! (' ' ' ' -%H-"/' ' ,
6 ' $'0/ , 0-(' ' / ' " +0' , ! " ' ' 2#% '
#" &0 $*' + " +0(2! &-/" ' 4&! (!(-% " ' &0 $*' + " $ @
+-/-/" #" 2" +*% "/' $'0/ , 0-(' " /' 4 ' * . " / , 0&" %" /'
-%0&&"/

'Q 5*59*M9*B&0 5' <B:5:5. ' .: ; ; 2'
4 58' 53' B 29B@0' 8' ' 2B ; 2' 42<+: ; G 2B' ! :B.2 9'
42' <+: ; G' ?9 ' 283' 8:98' +2' G:9B82 9' 4&95' .: ; G+2
(' 'Q 5*59+* 50' 5*360' 5' <B2*

5:5. ' .: ; ; 2' 4 58' 53 B 29B/0' " ; ' $9 ' 2559 20' ; K
<:B3952' 0' .:53B B 2' 4 58' +2' ; : ; 253' 2\' 283' :B3'
2559R 53' $92+ 32 ; <8' 2559R 53' ' 5&R' ' < 8'
4&=: ; ; 2' ?9 ' 3' a82M 4&28<B 3' <:9B' 5& 3B2' @ ; 8'
2559R 53' 5' 52' 88 ' < 8' 42' + ' 3B:9E2B' :B3 + 42'
23' :B3' 2559R 5320' 'H# '
-' (* $ ' 1' &G: ; ; 2' 25*
59R 53' 283' .2+9 ' ?9 ' 2559 2' < B' : .. 8 :5P .2+ ' 283'
.. 42532+P &=: ; ; 2' 2559R29A' 283' .2+9 ' ? ' 2559 2'
3:9@:9B8P .2+ ' 283' 5=2B253' 5' =: ; ; 2' 2559R 53'
<293' 5& 3B2' 9.952 ; 253' 2559R29A' ! 8' +2' 3' 283'
?92' 4 58' &98 J2' .28' 429A' ; 38' 82' .:5 :54253P 829*
+2 ; 2530' 2559R29A' 283' <+98' 8+3 ' ?9&2559R 53
('0' c 'Q 5*59 * 0' 20' 5' <B:5:5. '
.: ; ; 2' 4 58' 53 B 29BI0' # ' 'LL 6' :53B B 0'
3 J9 ' 559R ' 42' 89<<+ .280' R 53' <95' ' +28' .=2 8'
+ < B4:552' 9A' .: ; <+ .280' ' 1 - / ' 0' V' D
559R ' 42' .2' ?92' @2' 89 80' @2' E:94B 8' 3:9@:9B8'
3B2' .2' ?92' @2' 52' 89 8' < 80' ' @7#' '
#(! ' " ' - ' V60' 5 - ' <' N' 559R 8' 42'
E EB2' 4 58' 95' < R8' 8' 5.9+320' 23' <:988 8' < B' +29B'
B:.3 ' 5 39B2++20' +8' 428.254 B253' @98?9& 9A' 25E K
B:58' 42' + ' 839+20' #7 ' K ' " ' ,& ! " !
0' "C' ' $9 ' <B:9E2' &2559 0' +2' E 42' 42' & ; 2'
28' : 8 8' 8:53' 3:9@:9B8' 2559R 8' 4&29A* ; 28' >& *
< BJ52' 9A' R29A' 4& ?3B9 ' &:G@23' 83 4 29A' &=: ; ; 2'
2559R ' < B3:93' 23' < B3:93' 2559R29A' 0' ' 0'
@ " - 0' 5' 0' ' ' &G: ; ; 2' 2559R29A' 4 <+ +3 3 :30'
&=: ; B52' 2559R ' <B 3254B 3* ' ' <+ B2' ^ " '
1! -5 # ' ' &=: + ; 2' 2559R ' 5&283' @ ; 8' ?9025*
59R29A0' '3G' LL 9G83 53 E2 ; 253' 5' 25#9R ' 28'
2559R 8
('Q 5*59 * 0' 5' <B:5:5. ' .: ; ; 2' 4 58'
53 B 29B/0' @&2559 20' 39' 2559 280' + 2559 20' 5:98'
2559R:580' E:98' 2559R2M0' +8' 2559 253P @&25*
59R 80' 5:98' 2559R :580' E:982559R 2MP @&2559R P
@&2599 2B P @&2559 2B 8P 2559 20' 2559R 58P ?92'
@&2559 20' ?92' 5:98' 559R :580' ?92' E:98' 2559R 2MP
?92@&255 +R 882P 2559R 53P 2559R 03U' 5' LL 6+ ; *
<2B8:552+ ; 2530' + 2559 2' 0' .&283* *" B2' 42' &2559 '
283' <B:33E 'Q 2 ; <3:' 5293B2' 23' ; <2B8:552+ 283' +2'
<B2 ; 2B0' '. 982' 42' & 3R ; :+:J 2' 42' 2559 0'
25' = 52/' + 2559 2' '?9 ' 33254' 83* + <:88 G+2'
?9& + E:98' 2559 2' 8 ' :B3' 25' 8 20' ?9 ' 283' +2' 3= 3B2'
42' 2A<+: 38' C 7 'U' 1' NN7 '3&2559 2' E2.'
; : 0' 'C '# 0' N' :B8?92' @& 3 8 9A' .= ; <80'
5& *3* + <: 53' 3' 42' <+9 2^ >* :5' -' :98' 25*
59R 3* ^ - ' > ; 8' @2' 52' ; &2559 20' ' > '
'N E:98' 2559R 3' 4&23B2 ; 33B2' .=2M E:980' " 'H'
K -" ' ' ' + ; 02559 2' 42' 52' <+98' E:98' E: B0' 8 E'
"7' 3 ; &2559R 342' +29B' G825.20' 5G' 2VC' 2<9 8'
429A' @:9B8' ?92' @2' 89 8' 42' B23:9B0' + ; &2559 2' 4 @ '
42' 52' <: 53' E:98' E: B0' ' ' ' "70)'
, '3' && ' < ' M) ' 4 58' ' ! B?92M* ; : ' 8' @2'
<E 8 .: ; <32B' 89B' E:3B2' + GB B20' + ; &2559 2B 3'
:B3' 4&25' .=2B.G2B' 95' 93B20' <' ' 'S233' 0' NF
' ' ' 982B' 42' &2559 ' :98< B4:55:58' 8:9*
E253' ' .29A' ?9 ' 5:98' 2559 253P ; 8' 5:98' 52' <:9*
E$ ' < B4:552B' ' .29A' ?92' 5:98' 2559R:58I' !'
" 'C B' " ' 2' 8 J2' ?92+?92 : 8'
E 32' +2' ; :542' 42' <29B' 4&23B2' 2559R 0' ') '9'
5' + 3' <29' .28' 9329B8' 38' <:9B' 5:98' 2559R2B0'
$9 ' 3:9@:9B8' 89B' 95' 3:5' 82 ; G+253' <8 + ; :4 2B0 : '
?# ' ' ' ' G8:+9 ; 253' 5' = : ; ; 2' = G +2' 8253'
& + .:5E 253' :9' 8& 3 559 20' ' '9' O ?92+?92'
<B A' ?92' .2' <9 882' 3B20' 9E2*5@:' & B:53' 4&25*
59R2B0' ' " ' 0' < ' VNN0' 4 58'
! 8 ; +=29B' ' & 8 329B' ?9 ' E293' 3:9@:9B8' 583B9 B2P
2' 82.B23' 4&2559R2B' 283' .2+9 ' 23' 3:93' 4 B20' 9 '
(! 7# ' ' ' F6' &2559R2B0' W ' # ' <B:9E2B' 42'
&2559 ' &2559R2B' 42' 3:93' 5 5' .2' J + 53' = : ; ; 2'
8&2559R ' 42' +28' 2559R2B' ' + +28' 4 + EB ' 42' 8 ' *
=2982' E 8 320' ' K ! # - ' (! ' 0' V ' :98' 5:98'
E 53:58' 8:9E253' 42' /" 5:98' <: 53' 2559R2BP 5:98'
8: ; ; 28' 8' J+:B 29A' ?92' 5:98' 52' E:9+:58' < 8' 5:98'
3B:9E2B' 42' ; 9E 82' .: ; < J5 20' '? " '
C B'V"V' $9&:5' +29B' 4 2' $9& +8' 82' :53'3B:<' 33254B2'
23' ?9& 33 + ' 8&2559 20' ' ? ' 0' " ' 3' E:98'
?9 ' E:98' <+ 82M 9A' :++28' < 88 :58' B: 528' ; K
329B8' 42' 8<2.3 .+28' B E:+280' :53' &:B2 ++2' 8&2559 '
9' 8:5' 42' ; 28' < B:+280' ' < & #' 0#! ! / 7 ' +
H 3 + .:5I' 8&2559R ' 42' 5& 3B2' ?92' +239329B0' +2' G2 9*
< B20' +2' E:B ' 23' +2' ; 33B2' ; 2' 42' &2 ; <2B29B0' 23'
253B2<B 3' 42' ; 233B2' 02 ; < B2' 4 58' 8 ' 8:5 ' !'
0' K ' " ' , & ! " ' ; 'CN' B.2' ?9& +2A 54B:'
8&2559 20' + E ' ; 233B2' +2' ; :542' 9A' 2B80'
& 'VF' ' &2559R2B' 0' E2.' & 5 5 3 ' &2559R2B'
' 33254B2' L B8' 2559R2B0' E2.' 89<<B288 :5' 49'
<B:5 : ; ' <2B8:552+0' B2' ?9&:5' 8&2559 2 ' 3' .29A'
?9 ' :53' 3B ' 42' &2M2B. .2' 42' 8 ' .= BJ2' < : B' 2'
<B: ; 252B' ' B 8' 52' <B 3254253' 93B2' .=:82' ?92' 4 '
+2' # ' 2559R2B0' N' E ; 0' + ' A
-' # 'S 68' :8' .=2E + 8:53' 23' + 8' 23' 2559 2M0

' '$ ' ꝏ ' ' O '8' ' B 58 42 B 5.2
3B:9E2B2M 259 2M 2 .:9<8 2B B ' ' '"'N7' K
B:50 4 3 & 5 28 H&25 531 5N E:98 4: 3 59 2B '
1'<'VFC' ! :93 559 ' 2BB+ ?9 5382 8253 3 5 EBN
1' <' V7%' 53 HI2I 5:' <?BB: 2 82BB B H ; ' 4 ; 2@
9#+ ; 2 <2:83 2559R2B 1!7 'O ' +2 ; 2B 4 3 &
498 ; :93 5:98 4: 3 59 2B 92 3 53 5:98 B293. 83
B: 8<252B 23 3B E + 2B @!-'B-' + A 56 8' 2 J5:B
:B 28.:932M <:9B 29 H?92 .2+ I' 52 E: 8 2559 3
'AAAE ' ! :93 3:B ; 253 33R 2559R2 42 8 ' 32
2B3 5 2 ?9'+'J253 82 <+ J5253 42 3:9328 < B8
6' <+ 5 1' BB ' '82 E:+3 3 B2 98*82 ; G+ 53
! 8 ; :B8 52 3 < 8 82 ; G+ 53 $9& + 8: + 255: '8
42+&:+B' -'< ' VV"VC' LL AE]' 8' :58 ; 9+A 89 8
.:53253 42 <:B32B :B8 95J' 82 + ?9' 3B:< :B3
; &2559R2 &283 ?9& + ; 2 93 +: 5J' 42 ; :9B2B 2
.2+2 ?92 3 258 <:9B ; 'R2 6' ++' " ' B
+'B 8:5 Q@:2 E:98 E2M :9R2 .R 428898 23 988'
?92+28.G:828 +:5J928 +9R 2559R: 253 ' ; Y'
2832 B ; 2 4& 5J+232BB2 ; 83 G 25 95J' 5' ' 283B2
<B2832 + 2559R ' ' ; :582 J529B 42 :9BJ:J52 5'
'V' ' O '8' 29 ?92 3:98 .29A ?9'+2 <+98 :B3
8& <<9R253 9B +29B8 <+ 8 B8 42 +29B8 <+ 8 B8 8&25
+9R253 Q ' ' F ' :98 <:9E 8 <2582B .: ; G 25
+'+:5J929B 42 8:5 ; 3 +9R 2559R2 <'X 'V" '
'+9R 2559R: 3 42 E2: B +28 .G:828 25< A 23 B2<:8
? ' '2 *+'""
-' (!'> , ' 2BBR ' 4 '<B:E'
' ,6 , '2592[B X>3. :B 5.'. 3 +'
6 ' ,6 '. 3 +' ; :4 2 ; @ B 28< J5' 23
<:B39J' 6 ' 3 +' I
-'" Q 5*59 * 2 3*M2* ; 5 5'6" '
5:5.N .: ; ; 2 4 58 534B 29B/3 44E ' &952 ; 5 GB2
2559R2982' + ' <B 8 &::2 ':5 ?92 8:9= 3 3
39B2 <:9B G.B B2 ; ' 58 2559R2982 ; 253 G ! ' +2
<B 5.2 23 8&25 283 988' G 25 82BE' ?92 :39B2 9
B 3 3 8 ; B' B ..288 G+2 ..92 ++ 53 G:5
5G32 # ' +2 2+ 2B 8 E 3 2 ; <+:R2B 8:5 32 ; <8 23
?92+?92 : 8 ' +2 <2B4B2 <:?B 2: ; < 3 BG428
; 84B G+28 6 ?9' + 52 B2832 42 .:58:+ 3 :5 ?92 42
B24 B2 2559R2982 ; 253 +29B ; 84B2 7)' '9 S
' +8 < B+253 2559R2982 ; 253 ') ' 9'
@:9B542 H49 ; 5 J2 49 492 42 :9BJ:J52I 82 < 88 '
882M 2559R2982 ; 253 3*8 ! %3 C' + R '
988 < B ; '+28 ; 8?928 428 =: ; ; 28 ?9' 2 <B:
; G5253 +2 <+98 2559R2982 ; 253 4 ' ; :542 4 58 +2
.:839 ; 2 +2 <+98 B 4 .9+2 %]" ' :5552 -:'V
-'# A56 3 58<23 MG 258E 93 ; 29M 8' 2A
; 2 E: 2 $9&:5 3 .:9B3: 82 ; 253 $92 .253 JB2
J5:B H<+98 JB 548I 3 255 2 82 ; 253 , '4 58
9552' LL A 68' : ; ; 253 283B: 32 ; 253 ' H42
+ .:B42+ 9 2B32+ 42 23 2559R2982 ; 253 2B3 A:E
-' (!'> ,4 , '
5 S ' Q 5*59 * 2 233*M& 5' <B:*
5:524 .: ; ; 2 4 58 534B 29B/ ";' LL]'$9'. 982
42 &2559 4&952 ; 5 GB2 .:583 532' 23 =: ; ; 2
283 G 25 2559R29A' 5 2559R29A 2B8:55 J2' 2
<+98 8:9E253 .' &:5 < B+2 8 58 5 5' 4 B2 3 +28
<+98 2559R29A 8 E253 8&R ; 29A .:549+B2 9 '
-" #'"' $9 <:9B E+EB2 G B 8 E2.' B 4&23B2
=29B29A 9 :54 5'R 8253 < 8 5: 58 2559R48
?9&2559R29A '> 4.G 533 3 '3 ; + 4B2
; 253' '59R29A' .: ; ; 2 + ' <+9 83 3B'8*2559R29A'
' 9G83 53 E2 ; 253' &283 95 2559R29A 5 JB 54
2559R29A' ' E:98 8 E 2M .: ; ; 2 @2 ; & ; 982 29
E:98 2559R 53 ' .&283 .: ; ; 2 3:58 +28 93B28 25K
59R29A 4:' ; :542 " " '@ !-'" ; ! '8<75#'
3'O ' <' VFF 4 58 ' LL 6 $9' 2559 2 25
< B+ 53 428 .G:828' B 8:58 + .2B 4 8.:3 B8 42E 25
4B 3 2559R29A ' &!-' E '"' 3 ?92 8'
&:5 52 E '@98?9&G 3B 5.=2B +2 .:9B8 2 8:5 BGJ52
2559R29A 2+ 42 828 3B 8328 @:9B8 B:' ' ! ' 'V'
3 52'+9'+ 88 53 B 25 ?5&952 2559R2482 E 2
D ' ' ' 5' 8'+:5J 253B23 25 E:98 82B 3 25K
59R29A ' +2M Y
-'# A 56 8' +98 59 29828 5:E2+28 52 +29B
<2983 25 .2532B 9 ' 1 9' 3 424 58 .2+@:B
+29B E 53 :52 ; 28 E2539B2 ?9' ; :9+3 9 JB 58 23
55 2982 ' E5 ' 28 B 283 2 59 2982 .=:82
$9 53 25 52 4:B3 52 52 B2<:82 '< ' C' 3
+ ; 2 .:9B:9.2 23 23 & 5 298 <:B < B+2B 4&952 8: 2
H8 2552I G28:J52 ' 'V7' LL A E68' 3 32+M J258
8:53 3B 8328 23 25 298 ' 29+A ; 2 8 ; 28 23 ' +29B8
; 8 Q =5#'V 7' LI AE '< 2 ?9' 9< B E 53
283: 3 + ' <+98 @:R2:82 33254 53 .2 ?92 3 53 E: 3
428 B4 42E 53 3B 832 23 2559R2982 H:G JB 52+
' '. ,/' AAA' NNO I'8'` ?9 5328 : 8 42
<9 8 3B2 2559R29A 42< B3' :+3 B2 23 <258 ' R
@2 829+ +&28. B3 BB4< B +28 B:.=2B8+ T 'DSS
-' (!'> , '23 +'32B ; 5 8: 3 / '?9'8 J5
2 B4<+43 :5 <345 3942 <B:E25^ 6 '
,6 ' , ' ,4 '. 3 +' ,6 '28< J5' 23
<:B39J' 6 ' 3 +' 55:3:8:

3' 'Q4*5:*4&/' :4 2B ; 2 42 G:3 5 ?92 '$9'
283 44<:9BE9 42 5:2948
' ' 3' -!" '42 '8 58 23 5:498 5:294
3' 'Q 5*5: *M2*+4/5' ' 2B ; 2 42 9*
.:552B 2' 583B9 B2 &: 82 9 & ..:939 ; 2B 9 J G 2B
-' ':+I' (' 5 0 ; :9+3 3 B3 25: 82+4 H 5
83B9 3I 5 5 8 <+2 5 42 :+:9B <! ' ' 3 K
. 5 5 V]' VN% 4 58 '>> Y' ' 2332
B ; 42 ; + 25: M2+42 42 828 <B2 ; 2B8 .:9<8 3B:9E '
49 B B 2G 882 ; 253 ' G 832 9* + 5 5& 'K '
; N
-' (!'<-'#' '! ' :82 9
' Q4*5:5*84 842/ # '
']' 2549 25 32B ; 28 5238' 28 38 45:5248 4 58
; '+233B2' LL]'@' ' 2 ?9&25 45:5.2' &45:5.4
4&95 3=4:BG ; 2 4&95 <B:G G ; 2' ; <+2 45:524 428
+8' '+:'283 <B4. 82 4 58 8:5 45:524' + E:9+ 3
?9&:5 ; 33 <BG8 &45:5.4 428 <B:<:8 3 :58 ?92
' + ' =7 ' "% ' 2 < <2 9JG52 89B .23
45:524 :B4:55 '+' 4 88:+93 :5 49 .:5. +2
<(7# ' ' ! :5328?9 29 R 53 ' <B4825328 ?92+
?92 : 8 428 E4B 348 ; <:B3 5328 4:53 &45:5.4 G
8:+9 23 4 B2.3 9B 3 <9 G+2882B 8 58 B9 3 ' 29'+'
<B9425.2 +:9 G+2 42 +28 25E2+:<<2B 23 < B .23 55:K
.253 B3 .2 +28 'E: +428 '.29A '?9'2+28 82B 253
59 8 G+28 8 58 ?9&2+28 988253 <2B4928 <:9B +28 8
J28 5& ! '< ! / 'C!- =7 7' '?9283 :5 82
B449 3 '44+2B ; 52B &:BG 32 ?92 + ' +952 44.B 3 25
E2B39 42 .3 :5 ?92+ '32BB2 23 +2 8:+2 + 2A2B.293 89B
2+2 23 .2332 ?9283 :5 44@ 3B:< B449 32 4 58 .23
45:524 B25 2B ; 2 25.:B2 882M 42 4 . 4348 <::B
?9&:5 52 8: 3 < 8 32534 Q 25 @:932B 42 5:33E2+28
' (' # ' ' !-" '+D75# A' '<'7F
4 58 'rLL 5 8 ; <+2 45:524 9522G:82 E 5
242 8 58 44E2+:<<2 ; 253 :9 2A@ 4. 3:5' H> ' 9A
45:524 952 .=:82 E 5242 .253B2 + '(4B334
'Q4*5:5*.4' 2 .'<B254 952 244 +2 42
E 53 ' :9 : *@&45:5. 45:5?:58/ W' 'LL]' 254B2
25 32B ; 28 5238' E: B 45:5.2B .2 ?92 Q ;' <2582'
D .32 .:53 253 G9 3 B3 .+28 :4 3:98 828 ; 258:++
J28 8:53 45:5248 6 ' 2=8 ; 2 + E' 5 4 58
- ' + 93 :G82BE2B ?9& + R 'G 25 42 + '4 2K
B25.2 253B2 .:5.2E: B 95 8258 3:3 + 23 45:5.2B 25
89 32 < B+'< B:+2 .2 ?92 :5' .:5?9 'O :
8 <75# '3' E < '"' LL 2B ; 2 42 <B:.249B2
5:5.2B 95 9A B+ .9+2B ?92+?92 .=:82 .253B2 + '
E4B 34' O &45:5.2B 5'# ' 3B2 45:524' 2 ?92
&:5 .:5.: 3 G 25 8&45:5.2 .+ B2 ; 253 '?#'
' ' A<:82B 8 '<25842 < B+2B' + 8&45:5.2 E2.'
. +34' <<B252M 8:332 'E:98 45:5.2B ; : 58 E9+J
B2 ; 253 '<# '#" 'C
-' (' S ! ' 5:5.2B 8 '<25842
.&283 + '<B:49 B2 25 32B ; 28 <B4. 8 23 ?9'+' :53 .:5
5 +3B252332 ; 253 A<B ; 2B 8 '<25842 :&283 R 4:5
52B 952 :B ; 2 ?92+.:5?92
-' (!' 3' -7-(# '42 2 23 -7- # ' 5
/*/2"" D.*8' @
' Q4*5:5*8 * *3 3 *E&/ ";'
$9' 45:5.2' 2B ; 2 45:5. 3 ' ! :38 45:5. 3 8
5: ;' 4:554 < B 2 9M42 9A ; 238 ?9' 45:5.253
952 442 <B2. 82 < B Q?3<:8 3 5 9A ; :38 2.3 8
.&283* *4 B2 9A 532B@2.3 :58 ?9'5&2A<B 5@253?9&952
2.3 :5 42 & ; 2 B:<:8 3 :5 5:5. 83 E2 .2+2
?9' 283 <B:<B2 ; 253 4::524 4&95 @9J2 ; 253' :5K
83B9.3 :5 45:5. 3 E2 ; :3 <B:<:8G < B 9 ; B8 8
<:9B .2 ?9&:5 <<2+2 <+98 8:9E253 .:583B9.3 :5 5
+R3 ?92 .2+2 ?9' ; 23 +28 4428 23 +28 ; :38 4 G8
&:B4B2 +2 <+98 .:9 :B ; 2 '+'B 8:5
' 3' -7- 57 '"> -7- # '45:5.2B
'Q4*5:5*8 * *8 :5/ ' 'LL3]' .3 :5
4&45:5.2B < B + ' < B:+2 :5 4 58 95 4.B 3 +28 32BK
; 28 ; 4 ; 28 ?9' 45:5.253' 5:5. 3 :5 42 32+2 :9
32+2 .+ 982' 52 45:5. 3 :5 ; G J94' 5J 8 ; 2 ?9
45:5. 3 :5 4 58 +28 .G:828 5. 25528 283 95'+ 3B2
0 "' 4 58 6 ' 5 R E: 3 8?9+2
; 253 H4 58 +28 83 3938 42 & 2 44 ; 2 B 5? 82I ?92
+28 . 44 ; . 258 4: E253 43B2 882 ; G+48 5'5: ; GB2
42 E 5J3 <:9B &4 2.3 :5 23+'44<:8 3 :5 4&95 . 44
; . 25 Q>2+'5&283 ?9&952 8 ; <+2 45:5. 3 :5 ?9'52
+29B 4:552 9.95 4B: 3 42 @9B 4 .3 :5
7 '3' <' ' <25842 3 53 ?9&2+2
5&283 ?92 4 58 5:3B2 28<B 3 8 58 9.95 4J B4
&45:5. 3 :5 5& 'G28: 5 5' 42 G:9.=2 5' 42 5
J92 5' 49 8:5 428 8R++ G28 ' <75#
3' <' N' 5 5& 9B 3 '<+ .2B 4 58 +28 +3B28 5:3+
E2 9A ?92 +28 5: ; 8 23 &4 :5. 3 :5 42 + ' 8: ; ; 2
52332 428 534B438 5592+8 L Z '. !#'
C : +3 VC7 <'V ']' R5:5R ; 2 42 <B:<:8 3 :5'
52 45:5. 3 :5 B ; 3 E2 :9 52J 3 E2 < B 32
283 95 9 : 2 ' -'" ' - ' &A! '
! ! " ; G8 ?92 2582 ; G+2 428 ; :38 4525 2 95
8258 + 3952 <B:<:8 3 :5 :9 952 45:5. 3 :5 33
$ E 3' <' ' &43 5. 3 :5 283 952

<B:<:8 3 :5 Q< ' B ; 2 :9 5 2 ?98+?92 .=:82 :
'?- &'.=' NC' LL ' ' ; 5 4B2 42 8&45:5.2B'
:932 8 ' <2B8:552 H42 BG2M 29AI 828 ; 5 B28 W3
8:5 45:5. 3 :5 842 E 253+' :B.2 42 4+:?925.2
@ ?'BM'G Y
-'# 'S 6 8' :932 <B289<<:8 3 :5 G9 ; 52
23 3:932 2595. 3 :5 ' 93 53 4& 9.+:B 34 ?92 9+3B2
8'& B 8:5 5&25 .3 + '4 2B25.2 ' ' BM
' 3' -7- !- "> -7- # !- #
3' - . ,'Q4*5:*<4/'5' ' 2B ; 2 42 ; 59 .K
39B2' R5:5R ; 2 4&45:92B
3' ! 'Q4*5:*<3B:* ; 5*8 2/ ' '
B4325492 4 E 5 3 :5 9 ; :R25 4&95 ; B: B
-' (!'& E: 3E<:E ; B: B 42 E 25 23 33E:
J E: B 23 -(
3 # 'Q4*5:B*\ * / ' 2BB2 J9B42
42 :B ; 2 B:542 23 B25 2B ; 53 952 93B2 < 2BB2
B:542 '+ ?92+2 :5 3B:9E242+ B2882 ; G+ 5.2 E2.'
+28 3283 .9+28' V
' '& R 25 23 F<A3^ 3283 .9+2
+ Q 5*5:B*J=29*+ 2 ' ; :9 +
428 5 <B:5:524 .: ; ; '4 58 534B 29B/ # '
' 2549 :BJ92++29A' 5:BJ92 ++' 42 8 ' :BK
3952' B:< 25:BJ92 ++ 8 49 83242 +29B8 B: 8
& ' %'A
'Q 5*5:B*J=29*++ B ' ; :9 ++428'
23 5:5 5*5:B*J=29*R B 5 <B:5:524 .: ; ; 2 4 58
534B 29B ?92+?928*958 <B:5:5.253 4*5:B*J=29*
++ B ; 8 .2332 <B:5:5. 3 :5 283 .:53B B2 9 G:5
98 J2/ + ' $ ' 254B2 :BJ92++29A' 28 89..48
25:BJ92 ++ 88253' ; ; :+2M 4 8*@208 B2 9 G 25 42
3:93 B 3 3 :93 .2 ?9&25:BJ92 3 95 8' JB 54 3K
3253 3 '1"' 7'+ J' '228 .B 83 9A 4:53
+542 25:BJ92 ++ 3 828 =2B48 'CA/' %
'6 &25:BJ92 ++ B 5'#" ' 2E25 B :BJ92 ++'A'
B4.2 '<B:45 3 42 ! '32 ; <8 <+98 29B8 JB 548
=: ; ; 28 4:53 2+2 <2938&=:5:B2B 3B: 8 89B3:93 4:53
2 2 4: 3 8&25:BJ92 ++ B < ; 5:54 8 ; :+4:5 2
=:. :5 6 '?- &'.='$
-'# A 56 8' '2 ; <2B2B2 '8&25:BJ92 ++'
; :93 25E2B8 +28 G B:58 23 25E2B8 .298 ?9' 3 5E
G 25'+' E: 253 3 23 82540 6' 3 .2 :53
+' <B294: ; 2 283 G+'<:9B +28 J B.:58 ?9'8&25:BJ92 +
+ 88253 58?9& + 253 3 +' ; :3 4 42 +29B32B ; 2
:9 +2 ?9 B3 + 53'" ' YM' LLAEV 8' B 82 J B
4253 H+28 53: 8I 42 29A 25:BJ92 ++ B 23 +29B8 . <
3 528 988 ; 8 5:5 2B:53 ' GRB
'AE 6 8' +5 ?92 +28 =:5529B8 52 5:98 25:BJ92
+ 88253 9' - 'MR ' +5 ?9& +8 52 8&25:BJ92 +
+ 88253 <: 53 25 E 52 J+: B2 9U 'MRB' :93 58'
?92 &2552 ; R 82 B254 <+98 JB2 '5:3B2 9 32 988'
+'4:9+29B8&25:BJ92 ++ 3 '5:98 E2: B 3B2 ; G+2B 8:9G8
2+2 ? ' ' %
-' (<-' ' '!#/7 3<B:E25^ -!#/! &! #
! 'Q4*5:B* ; &/ ";'LL '$9'8:B3428 B4J+28
428 =: ; 28 ?9'283 .=:?9 53 :9 B4E:+3 53 < B8:5 2A
.48 52 932 45:B ; 2 2332 45:B ; 2 .3 :5 32
<B28?92 '5:8R29A' 93B J2+'5 39B2 23 G+2882 @98
?9& 9A 4 29A '' 'F' 2 .2 ?9: ?52
JB 54 45:B ; 2 52A.98 G+2 5'3G E 8 28.=:828
?9 84: ' 29 8:53 4&952 ; + .2 45:B ; 2
92530#* 'F7' 2.:9B B 29B8 4 29A <:9B +29B
42 ; 542B .2 ?9& +8 5& 9B 253<9 42 ; 542B :9E2B
32 ; 2534 58 +28 32 ; <+28 '8 58B:9J B '.23 82 ; G+2
45:B ; 2 23 582584 ' 0 ' 3 4 58
; 8.:5 98 42 .= . 528 45:B ; 28 2?9' 93 G+ 9.
9 3254 B2549 5: B< B+28 :B ; 28 ' :+' '43 3
B .=2 + 43 3 E439 ; J5 ?92 ; 253 + 8 3 G:552
.=4B2 '?92 3B:9E2M*E:98 +' 42 8' 45:B ; 2 23 42 8'
B 53^ ? ' '<) '$9& + H+2 49:42 :9BJ:K
J52I 82 8:9E353 ?9& + 5&43 3 E259 ' B ; 42 ?9&'
:543 :5 42 +9' :G4 B H' 2544 ; 2I .28 < B:+8.'
45:B ; 28 B253 B4 ; B 4& 54 J5 3:5 3:93 .2 ?9'
253254 3 &! ' 3B 5J2 E2B39 ?9' 82
:B ; 2 :9E253 42 882 ; G+ J2 45:B ; 2 28 E .28
48 <+98 443283483 9'5' ' " '9 M'NN
2A3258 :5 42 +'8 J5 . 3 :5 ; :B +2 '+'8 J5 . K
3 :5 <=R8 ?92 2A3B :B4 5 B2 < B 8' JB:8829B:9
< B 8'JB 5429B' 5 45:B ; 2 G+:.'42 JB 5 3' 5 .:
+:882 4&952 JB 5429B 45:B ; 2 2332 :B3952 45:B ; 2'
2<254 53 95 8 5J+ 2B ; :583B2 45:B ; 2 23 89<2BG2
2532 25.:B 5:3B2 B.=2B B 54 42 32+8 ; :B.2 9A
' ' ' C' 2 8 E: B* B2 23 &=
G+234 52 ; 45253 < 8 @98?9& 9A 45:B ; 28 B 2=28
828 ' ' B 2A3258 :5 23 ; + 4B2 ; 253
2 G + 43 3 89<2BG2 95 ; :542 45:B ; 2 +28 <+98
@: 28 <2B8:5528 42 B 8 Y'" ' ?C ' '
9A '3' 5 7' 2:0<'"VC 4 58 ' LL '
2 4 3 988' 42 + '49B42' #' 3B9 ?9'43 3 952 428
+9 ; 4B2842+& . 44 ; 2 8&25 G 3E:+:53 B2 ; 253
+:5J32B <8 E 538 ' ; B3 < B.2 ?9 ' 3 8. 54 + 84
42 + '+ 5J92:B 45:B ; 2 49 32 ; <8 ?92 :5 93 '4 8
<932B W'+ '+233B2 '42E 3 43<2 ?9 + +42 8 ; <+2 ; 253

B $- Q Q

E:R2+2 :9'8' .3 3 ;' 89G83 53 ' ; 8.9+ 5 " !'
7 ' < 'VFN' 3B:9E2 -!# '
E2.' 428 42JBN8 42 .: ; < B 8:5' ' 93 ?92 + '
@983 .2 42 29 8: 45:B;2 .: ; ;2 8 ' ; 8'B6
.:B42 :B + '@983 .2 25B2B8 +28 B2<B:9E48 283 ; : 58
45:B;2 '4 58 & ' ?92 =: ; ;2 8283
+EB4 9A < 88 :58 +28 <+98 =:5329828 23 ?9 +28
' <:988428 @98?9 9A 2A.N8 +28 <+98 45:B;28
! ' 0 # &#'0 'A 'V' # 23 2; <+:' '4 4
.:54 ;54 ; 8 98 J2 93:B 82 23 E9 8:5 43R
B :+:J 2 23 8 '8 J5 . 3:5 -!# '52 <253 43B2 8
T' 5 +4 6' - ' 2B;2 42 4B:3' 48 :5' 45:B;2
48 :5 ?9 ' :93B2< 882 3:932 ; 289B2
-' !' $9 54 45:B;2 8 J5 2 2A.288 '25 JB 5K
429B :9 25 JB:8829B 82 ;23 E 53 :9 <B 8 8:5
89G83 53 ; 8 ?9 54 8 J5 2 BB4J9+ 2B .=:
?9 53 B4B:+3 53 52 82 ;23 J94B2 ?9 <B48
-'# 'S 6 8' 29A 25:B;28 :B M !'
6 N"5 # !' 28 <+98 25:B;28 23 E+ 58
. 8 #"!--' " '#! '3' E5 < 'N""' LAE 6 8' 28
25:B;28 <:9B3B .38 ?92 +28 25 538 E:53 82; 53
9A < 88 J28 23 28. +2B8 6 ' ' '3 42 4
5R 293 <B28.=29B .: ; ;24 53 5:9E2+ 53 ?96'
52 82 83 :9 B 89B 25:B;2 H G: ; 5 G+2I'E 2 49
B:'H#25B' I "G ' K ' ; 'C"' 28 <:832
; 28 25:B; 28 .283 4 4 B2 2A.288 E28 25 JB 5429B
8:53 8:9E25328 : 8 ; :B32+28 ' "
' B:E25.'28< J5 '23 3 + -!# 3'49'+ 3 5
-!# '#""' =:B8 235 : ; : B4J+2 QE:R @
c !c! 'Q *5:B*; 4*; 5/ "5' 952 5+
5 4B2 45:B;2' '283 4=:B;4 ;253 JB 54' <B4323 4
E: B 434 484 45:B;4 ;253
-'# 'O I 8' 2+9' 89<<+ 53 E:R 53 +2 4 3 8
3 2552 25:B;2 ;253 G 339 23 J:9B :+4 '" '
! A # 'LAE 6 8' 3 < B ?9 3B2 @:9B8 52 .2882 42
32 ;<2832B 25:B;2 ;253 ' :53 E M' 28?92+8
6' :9+B .B 2B <258:253 ?9 93 25:B;2 ;253
G+2884 '1!- 'A
-' (!' A- # ' 23 +2 89 A2 ;253' 283 < B
95 G98 ?92 98 J2 ' .:58 .B4 ?92 :5 4 3 -!#)
- '23 5:5 -!# -'Q<B:5:5. 3 :5 ?92 4 '
B2832 :5 253254 ?92+?92 : 8/
! 'Q4*5:B*; *34/ ' LL J $9 +34 42
.2 ?9' 8:B3 428 B4J+28 428 = : ; 28 42 .2 ?9' B4
E:+32 < B 2A.48' >25 H42 ; 28 .B ; 28 ' .:55 8 ; 29A
?92 E:98 3:932 25:B; 34 '@ !#' E " 'R
'<: 53 42 89<<+ .2 882M 54 <:9B 45:B; 34 42
.2 .B ; 2 23 8 42 ; 29B2 ; <95 +28 .=:828 +28
<+98 8 .B428 52 8:53 <+98 25 84B234 ' >25' E "
+2 B2<B48253 ' 45:B; 34 49 . 8 H+2 .:9< ?9 '4E 3
<B E4 42 + ' E92 ; :9BI :5 +8 8 58 95 G43:5 /8
<:9BB 3 B2 95 < 8 ' 'A "" 8 8
Q+2 45:B; 34 4952 <:83 8 2 ?9' ++ 3B254B2 59K
3 +283:58 +28 3B E 9A 42 E:3B2 <45 325.2 '1 #'
. &7 ' H+2 ; 5 83B2 8 53 3B:9E2 4 58 '
< 88 :58 + ' ; 4 ; 2 45:B; 34 8 E:98 .:582 +2 +2'
; 4 ; 28 B2 ; 4428 " -/' " ' #! '$9 54 +2
8. 54 +2 428 <4.=48 5R @:932B 3 < 8 95 5:9E2 '
42JB4 445:B; 34 5'0 ' # (' '5 # 7 ' >2
'E9 @2 +9' ' B2<B:.=2 45:B; 34 42 8 ' .:5
49 32 ' + ' "H# ' LL G8:+9 ; 253' .K
3 :5 3B:.2 54 J52 G:532982' : ; ; 233B2 952
45:B; 34' 3 +:B8?92 @2 ; :<<:82 G 3 53 445:B? +
348 48 B < B+2 428 4B: 38 23 428 :B ; + 348 9
1 ' ' " ' 3 988' < B:+28 G89B428 :9' B4E:+
3 5328' 4 3 3.= ?92 583 53 428 45:B; 348' LL
; + 4B2 ; 253 23 B:5 ?92 ; 253 82 4 3 4952 45:5
. 3 :5 95 <29 B 8?942 :9' 3B:< B 5.=2 4 58 +'
.:5E2B8 3 :5'>2 E 8 4 B2 952 45:B; 34' LLF' A.48 42
JB 5429B 42 JB:8829B' 45:B; 34 42 8 '3 +2' 4
5:B; 34 4952 ; 882' LL J' 45:B; 34 428 4233280
428 25J J2 ; 2538' 28 E:29A 3 B4 8 H<:9B +'< AI
543 53 < 8 2A 9.48 25E 8 J2 45:B; 34 42 828
:B.28 B2E 253 89B +28 8:9E25 B8 42 +8 33 23 4 B'
@ D9B3 ..92 +2 428 B2582 J52 ; 2538 52A .38 89B +2
. B .34B2 42 8:5 B E + 'K '"'K !'9 N
-'# 'S 6 8' :9B 25:B; 34 42 JB 5429B :9
?9 53 34 42 .:B<8 42 ; 289B42 ' ' ,& '"'
' =:828 JB2E28 23 .B92+28 ?92 + '25:B; 34
42 .2839R + 3 52 + 88' < 8 B2. 32B > ' 6
C # (!
' ' 3' -!# ' 425:B; 8 45:B; 2
3' 'Q4*5:*83N*M /8' ' 2B ; 2 42 ; 442
. 52' 9 ; 29B :882982 44E2+:<<42 4 58 +2 . 5 ; 4
39+ B2 495 :8' <<:84 6 2A:83:82
' B '25 23 4:E2:E :8
'Q4*5:9*4 42/ # ' "
,'Q4*5:9*4/ 5 ' ' 2B ; 2 Q+2 ; 59 .39B2
4&!26"'&"D '04' "/'#%""0."2#"4"%-%"(4-/2"%%"(#"
$""&"(/*"!#(#"$-&' 40-&&"("%*'#!'"(,!-'4"!."/%
(18 '"/2*/%"'" /*!"" "/' 7'0(' #4&!26"' &" #'04
0.0/% ,!!-& (*-% ##7'0-((#5 #/*!"" "/' +0-7'"' 1#@
4&!2;"" 04'#(,!!-& "(% ##7'0-((#'N "'/0"#" .-%'-2'

4< B2B +28 5.2948 42 8:949B2 49 E 29A <+: ; G E 53
42 +2 B2 :54B2
-' (!' ' '<:9B '<B4 A2 23 ,
3' BB 'Q4*5:9*29B 2 *M/0' ' '23
9EB 2B :9EB _B2 ?9' 45:92 +2 4B <
I' $ 'Q 5*\:9 *4B9*<4*44/ /' '
2B ; 2 G9B+28?92' !43 ; :B<=:82B 25 ?9 4B9<442'
2 =: ; ; 2 G 25 3 < B 5 39B2 B25 3 952 =:BK
B G+2 J9B2 2 8253 53 25?9 4B9<442B
3 / ' .= <'E9
' ' 5' " 23 +, , "
, $ 'Q 5*\ B/ ' ' :R' 50
$ ' Q 5*\4*B 5 B 5*3/ 6'
29 98 34 $9' 825?9 2B3 E2.' 3B:< 42 .9B :8+34'
:98 4328 G 25 25?94B 53
-'# 'S 6 8' '<+98 25?92B 53 =: ; ; 2 25' :BK
; 54 2 0 / 1' ' ' , ' ' 0 ' '3' E
-' '%13 '$ "
$ 'Q / Q 5*\4*B B/ @2' ; 25?9 2B8 39
325?9 2B8 825?9 2B3 5:98 5:98 25? 4B:58 E:98
E:98 25?94B2M +8 825?9 4B253 @2' ; 25?94B 8 @2
; 25?9 8 @2 ; 25?92BB @2' ; 25?92BB 8 25?9 2B8
3: ?9 825?9 4B2 25?94B:58*5:98 ?92 @2' ; 25
?9 4B2 ?92 5:98 5:98 25?94B :58 ?92 E:98 E:98
25?94B 2M ?9 +8 825?9 4B253 ?92 @2' ; 25?9 882
25?94B 53 25?9 8 / ' LL 6 B2 428 B2.=2B.=28
89B 5?94B2M*E:98 42 .2+ ' + 258 5:98 25?94B B 49
:9B842 8:5 4283 5 ' ' E ' B
. ; G2 < +2 : 8 825 283 25?9 8 8:98 ; 5
' " ' >9B 8G28: 5 495 =: ; ; 2 ?9' 825
?9338: J52982 ; 253 42 828 ; :29B8 23 ; 25 B254+395
.: ; <32 44+2 7 ' 2 ' ' '5# ' L/ 2B ; 242
G+ 8:5 B ; 28\ '25?94B B E:R' C" 'LL =2B
.G2B \' .:55 33B2 4394 2B' 25?94B B 428 <B 5. <28
428 .=:828' 5 @ B?9 5 825?9 3 < B +' 8. 25.2
?9 E 3 4 58 ' 9 J9B28 8' 2+28 E:94B 253 4K
42B +29B <+ .2 G >9< 32B C' 'AE' 5 42
< 8 2B 9A ; R834B28 .=B43 258 .: ; ; ; ?:58 < B
5:98 25?94B B 42+ '5 39B2 428 .=:828 ; R834B 29828
'2 ' ' ' 'NN B:E2BG2' B:< 25?94B B
5283 < 8 G:5 2283*G*4 B2 :5 825?9 2B3 ?92\ 92*
: 8 42 .=:828 ?9:5 283 G.=4 4 <<B254B2
' U!' = < ' 25?54B B .483
B2 952 25?9432 8 5 :B; 2B :283 <B254B2 952 5K
:B; 3 :5' 2 + '8:B32 25?94B B 28342 ; 82 3:9328 +28
8 Q?9 +8 J 3 42 ?92+?92 .=:82 42 <+98 ?9952 8 ; K
<+2 5 :B; 3 :5' 5 <4B2 ?9' E ' ; B 2B 8 2 825K
?9 2B3 428 ; :29B8 428:5' 939B J254B2 52 82 .:5
32532 < 8 42 825 5 :B; 2B
-'# 'S 6 8' 5?9 8 H ' ; :93 + '+2 ' 42 8 +E234
H42 8 +93 +2 .=B 83 5 8 ; 2 1&' " . ! 'A' LLA 6 8'
95..9 ; 54 4' + 'B2 8 >:B ; 8 Qh92 958 ; 953 8325
95.9BB2 23 25.953B2+9' + 83 2 8 '3983 983 G 25 25
?92 83 23 42 ; 54 83' :38 <' 0 'LLA 6 8' 3 + ' 25
25E: '828 ; 288 J28 <:B 25?92BB2 82 + + ' 42B: 3 23
'2B: 3 8:5' .: ; ; 542 ; 253 9 ' 19' H$92I 8: 3
; 8 42 ; : 'G H< BI +9' 59+2 5:9E2+2 25?9 82 '
SSS' 3 H?92I' . ?9 3B2 25?9 2B.253 3:9328 +28 E2
5348 23 ?9 53 +28 B:53 25.9 828 8'25 4: 58253
;'?= 8.95 8:5 4B: 3 ' " ' 9 '19 ' 2 <923
25 G 25 428 .+2B8 25?92BB2 $9' :2.2 42 .:5 :B3
H ?2.2 89B + ' :58: + 3 :5 + 8253 3 +28 825325.28
?9'+G J 8253 ' ' 'R M ' 58 82 4: 3*:5 G 25
J B42B 25?92BB2 < B @ +:98 2 2 ?9:5' E:4B: 3
3B:E2B " " '8#^0HH#' : ; 5.2B: < I'
'A E6 8' 283 G:5 425Qn92B B ?92+2 .=:82 283 +2
8:9E2B 5 G 25' :9' + ' 5 42 3:9328 :29EB28 =9 ; 528
3= ' ' ' ' 0 I 8' 9 =: ; ; 2 52<B283 '
@ ; 8 3 53 :B2 +2 9A J258 52 52 825?9 83 42
3 53 42 .=:828 .: ; ; 2 H :98 S I' 8:3 W '
'0 I 8' 2+ '283 25?92B B 89B +28 82.B238 4:53
+' <+2 52 B2E2+ 3:5' 283 4 2B42 9' 42B5 2B @:9B
9'$ '0 ' RB98 8283 53 25?9 8 ?92 2283:3 '
4 B2 ? ' 'MR ' >2 ; 25?9 8 G +9R .: ; G 25 42
:8 + ' ' F%' :9B3 53 + ' 9+3* 28394 2B 23
25QI92B B H+ 4:9+29BI " ' Da; ' :.B 328 B ; 25:3
3:98@:9B8 25?92B 53 G B254B2 .: ; <32 428 .:54 K
3 :58 42 8 'E 2 <B282532 23 < 8842 " 0 Y)' >25
8 :B3 <29 25?9 8 H42 .:582 +8I ; 8 @25 89 8
25.:B28 ; : 58 :B29 " JQa' 925?9 2B8 23 28
.:9328 E 53 ?92 42 .:54 ; 52B $ ' : ; '7'
28 42E 58 25?9 8 89B + '8 J5 . 3 :5 42 .2 <B28 J2
B28<:54 B253 "9
-' (!' B:E25.' +, ' +, ' +, '
28< J5' 35?9 ; B 3 + ' +, ' * '
' 49' + 3 5 35?33 B2B2 42 35 25 23 ?WW
'QE:R' G
$ 'Q 5*\4*B' ' LL 6 H ' ' 2B ; 2 42 G+
8:5' B ; 28 G 25?92BB2 :9 G 25?94B B B ; 28 ?9
43 53 .253B2 +28 B4J+28 :B4 5 B28 :53 ?9 25 +28
E:R 53 :5 82 42 ; 542 + 'B 8:5 42 .2332 ; 5 4B2
2A3B :B4 5 B2' LL F6 @' 35' 5. 25 32B ; 2 42 <B K
3 ?92' 2.=2B.=2 42 :B J 52' B2 25?925B

' ' <-=7 ## '283 5. 25 5 5 3 '?9:'5:98
4 8:58 -=7"# #'8 ! ' =83:B ?92 #1 Q! 0- E BK
; 28 G 25?92BB2 8:53 428 B ; 28 4:53 + 93 825
?94B+B
c $ c c 'Q 5*\4*B4 B42/ "a' 2B ; 2
42 G+ 8:9' B ; 28 25?92BB428 .2+28 ?9 :53 Q?92+?92
8 5J + B 34 4:53 + 93 42 ; 542B 2A<+ . 3 :5*
' ' <-=7 ## '3
$ _ 'Q 5*\4* / ' 2B ; 2 42 <B:24
49B2' 94 3 :5 42 34 ; : 58 25 @983 .2 <:9B E4B 2B
2A 8325.2 :9 + '5:5*2A 8325.2 42 +8 B3 .9+48 4 58
95 <B:248' 5?9432 E2BG +8' 5?94 2 < B 4.B3' 28
< B3 28 43 53 .:53B B28 25 +8 :5 :B4:55 '952 25K
?9432' ' 5?9432 .:53B B2 :9 .:53B25?9432 .2+2
?9 '82 3 4 58 534B43 49 44 25429B' 5?9432 4 K
B2.38 .2+8 ?4 '82 3 4 58 534B43 49 42 ; 5429B
' 5 9432 < B .: ; ; 952 B25: ; ; 42 25?9432 4 58
+ ?92 2 428 34 ; : 58 8:53 <<2+48 6 44 :82B 42 .2
?9 +8 :53 E9 29A ; 4 ; 28 :9 <<B 8 < B +2 GB9 3 <9K
G+ .' ' 5. 25 32B ; 2 42 4B: 3' :5E2B+ B +28 5 :B ; K
3 :58 25 25?94320 B254B2 . E 95 <B:248 .B ; 52+
' G ; GB2 428 25?94328 :9 8 ; <+2 ; 253 +28 25
?94328 .G ; GB2 49 < B+: ; 253 G :5@9J2 3 < B4.B3
+28 <B:248 << 5348 25 <B2 ; 4B2 583 5.2'H 93B28
32B ; 24 42 5. 25 4B: 3' 5?94324 2 ; 25 G 939B
5 :B ; 3 :5 @94 . B2 89B 428 +8 <:9E 53 42E25 B
+ 3 J 29A +:B8?9:5' <<B4=254 3 ?92 + '<B29E2 525
53 G <4B B E 53 ?92 +2 <B:248 3 253 ; 4' 5?9432
< B 3:9BG28 5 :B ; 3 :5 @94 . B2 89B 428 <: 538
4:9329A 428 ; :93 ; 28 23 89B 428 98 J28 ?9 '5 43 253
< 8 44 J48 < B 4.B3' B J 5 B2 ; 253 25?9432 < B
3:9BG28 4B2 8 3 G 3:58+28 5:3 G+28 49 < R8 <+98
3 B4 :5 5 532B3:J2 '<+98 ?92 +28 <B 3 . 258' GB:
J2:58 3:9328 25?94328 42A ; 25 G 939B 23 .2+28
< B 3:9BG28 3:9.= 53 532B<B43 3\ ; 4952 .:939 ; 2
:9 98 J2I 23 Q> 254:58G 3:98 @9J28 42 +28 :B4:552B
5' 4R E: B 4J B4 G <2 52 42 59+ 34 #"!-- -('
" '"NNC + 3B2' : + ' B3' 95 ?92' LF6 '82 4 3 988
25 32B ; 28 42 . 5:5 8 3 :5 :5 42 G2 3 . 3 :5 W
428 B2.=2B.=28 <:9B . 583 32B +28 +8 LL ' 39K
428 B2.=2B.=28 25 ; 3 4B2 42 = 932 4 ; 5 K
83B 3 :5 328 @ B :B4B2 42 93:B 34' 5?9432 b
: ; ; 2B. +8' 5?9432 89B +28 2B8 89B +28 89.B28
' 5?9432 " ' ! !"!' '-(! !"!' + 334B +2 ; :53
25?9432 89B E 53 J2 23 +2 448 E 53 J20 .2+2
Q@9' <B4.442 +G ; @82 25 .3 E 34 42 .2B3 528 98
528 :9 GB ?928 B 5J428 < B ; '+28 43 G+ 882 ; 2538
4 5J2B29A' 58 +9GB28' LL 5?9432 < B+2 ; 25
3 2 25?9432 :B4:5542 < B 952 882 ; G+42 +2J 8K
+ 3 E2 23 32 25 8:5 5: ; ' < B 952 .: ; ; 88 :5
89B .2B3 58 : .@238 4 534B43 <9G+ . ' >B2<:9884+28
25?94328 5 42 <+ B2 G+ .:9B 7' -#7
"6 2B ; 2 42 ; B 52 5?9432 42 < E + :5 .3 :5
42 4:552B + ' .= 882 G 95 5 E B2 ?9:5 E293 B2. :5
5 +3B2 <:9B +9' B2 = 882B 8:5 < E + :5
' ' :-/I'(' O' 2-0!(' U2"!:J #*-% #"+0/#"' '
;0-&&-:' (1-& ."'&"/%O%"/#'" &*-0& "/ ,!"(%"'
' O I $92 25 3B: 8=9.=28 :9 .: B28 8:253 ; 828
+28 4 328 25?9283280 .283 88 E: B 25 952 +28 25
?928328 G @9J2B 2325 93B2 +28 25?928328 @9J428
23 25' + '3 2B.2 +28 25?928328 42 8 5J H+28 25?94328
9 .B ; 52+I 4:53 +28 4 M@9J29B8 <:B32B:53 +28 2+48
#"!--'" #! " # ' ' <
-' (!' B:E25?' -=7 3'-%0&' - & '3'#!'
40'%' 40((# &0%-/' -= '4'-(' (!; (%0/%-."+"/%'
"K-=7 #F 'Q :R' 8 ") @
e +@ 'Q / Q 5*\4*34/ 5 '#" ' 25?94B B' 9
89B'9 ; 42 ; : 82+2 E:98<:9E2M E:98 25?9432B
42 ; :5 =9 ; 29B 23 42 ; :5 . B .34B2 @2 89 8 8 B
?9:5 E:98 25 2B '42 G:58 B <<:B38 9 1'> :
-- 'N6 < B3' LL 2 825?9432B 42 B 25 52 82
; 233B2 25 <2 52 42 B 25' 3 3:93 +2 <29<+2 <GBR
J 25 $9' +:B8 52 825?943 3 42 B 25 8.3 8 : '
#/' ' ' ,
'# ' :.Sf (' " /*!("/ ,!"(%*/ (' 4*-/%#" -"!'
,!"40" (O 40'*&(1J 9' - 'B)' "" "-7/"!"/"
(1"/ ,!"(%"'0%@-& 4*-/%#!!/' %"& $*'$0-%3 -/' 'A '
;0&#(,!-'&"' 4'"+-"'(1"/ ,!"(%0 #"'%"&&" +0%-"'"
? ' &' A' /DN!"(%# #!' /*+ ; '"' #"((*&#0%(' -&
'"(4*/#-%' "G 'K ' 'YA
' ' <-=7"
$ 'Q 5*\4*389B/ ' 6 93B2 :8
@9J2 :9 : . 2B ?9' E < <:9E: B 42 B2 428 25K
?94328' + '? "; ' >9J2 25?94329B' 5 5: ; ; 2 95' .: ;
; 88 B2 25?94329B :5 5: ; ; 2 95 2A<2B3 :5 :9EB2
952 25?9432 ; '0 ; B2 " ' '1 - # N
!-' <' N%' ' 2+9' ?9' 825?9 2B3' 9 8 .28
JB 54825?9432 B8 :9B 29A42 5:9E2+ 28 ; 2' '
< ' " % 4 58 6K 7 \ ' -=7
-'# S 6 8 3 42 : .2 8 94 329B8 283 +
< B+4 9' .= < 3B2 ?9' < B:+2 428 94 329B8 23 25
?928329B8' 'E3 ; E' I 9B ' 3 <29 42 32 ; <8
<B48 53 23 33BB (G G B 8 ! :58 29B 42 = 83 # :50

b

[illegible]

8' Ɏ c ' Q 3 *B2* Ɏ '2/Ɏ # ' '
3 25B R2B ' = ;< 25B RN
('Q 5*BN* N/Ɏ@&25B R2Ɏ 39'25B R28Ɏ +'
25B R2':9'25B 2Ɏ 5:98'25B R:58Ɏ E:98'25B R2MɎ +8'
25B R253':9'25B 253'@&25B R 8Ɏ 5:98'25B R:58Ɏ
E:98'25B R 2MɎ +8'25B R 253'@&25B R P@&25B R2B Ɏ
:9'25B 2B 0:925B 3B P@&25B R2B 80:925B 2B 8Ɏ
:925B 3B 8'25B R2025B R:58'?92'@&25B R2?925:98'
25B R:58Ɏ ?92'E:98'25B R 2MɎ ?9& +8'25B R253'?92'
@&25B R 882'25B R 53'25B R 2Ɏ /': # 6' !233B2'+28'
B 8'4&952'B:92'4 58'+29B8';:B3 828' LL ' 2325 B'
+28'B:928'25'G BB 53'+28' B 8' E2.' 95'G_3:5Ɏ 952'
.= 52Ɏ 952' .:B42Ɏ :9'25' 82' 82BE 53' 4&95' 8 G:3'
' J' 2325 B' = ; ++ B3' N3 3' +29B' 583B9 ; 253'
E29J+2' H49'< B3' 42' ! +2' G: 51Ɏ 8 58<:9E: B 3B2Ɏ
@2524 8'< 8' BB 3'Ɏ ; 8'25B RN+2' ; : 58' 49' ; :542'
< B'+28' 4928' 42' =2EB2982' 23' 42' 2 9E ++ 2BɎ 8 +'
8 ! Ɏ :"Ɏ ' ' G8:+9 ; 253' 5'25B R2' 9M428+'
.25328' B < 428' LL J' & BB_32B' 89B' 952' ; 9E 82'
<2532' : ++'<+98' 42' ; 9E 828'<+ 8 532B 28'?92'39'
52' ; & 8'3259' 42' ; 9E 8'<B:<:8Ɏ +'283' 32 ;<8'4&25+'
B R2BɎ A'A' :988'K ' ' M
-'# Ɏ A56'F' 29A' E 94B:3'25B 2B' ?92' 52'
E:98'3B 2'_' 5Ɏ .!-" '<'382
-' (!' VɎ 23'# 'B 4 . +' '# !-'QE:R' .2'
;:3/Ɏ 4 58'+2' 8258' 42'B R:5' " '#!7
' ('Q 5*B 2*e/0W ' : ' 2'.:5@9J92'.: ; ; 2'
25B R2B'3' 2B ; 2' 4& JB .9+39B2' B .2B' +2' <B2 ; 2B'
8 ++:5' 4 58'95' .= ;< ?9&:5' E293' + G:9B2B' LL +98'
8<'. +2 ; 253' 5B R2B' +28' 8 ++:58Ɏ + G:9B2B' 25' +'
8 53' E2B82B'+ ' 3B 5.=2' 49'.=34' 534B 29B' 42'+ <+ 5+'
.=2' : 9'G ++:5Ɏ 42' ?:5'=' B2' 95' 4:8' 9' ; + 9
-'5 '5 +6'8' 9 54' 3' <B253 M 283' 25B: 4' ='
<B254B2Ɏ 23' +' 8&25 9 8395' ; 8'9' 429AɎ +' :9G+ 2'
?9 53' ?92' +' ' <B 8Ɏ = /' ' ' M ' BJ92+' 428:+'
G2 83Ɏ :BJ92+' 2B3'23' 428B: 2' BJ92+' E293' .=2E2B'
?9 5?9& +<2582'23' 25B 2' H.: ; ; 25.2IɎ A'58'
9 ' "C N
-' (!' 5'3Ɏ 23'#
' ('Q 5*B * 29B/Ɏ ' ' 9EB 2B' ?9'
.:549 3' + '8:552332'=' 4 .+ .
-' (!'<-# #'
('Q 5*BN* : /Ɏ ' ' ! .= 52' <:9B'
25B R2B' 952' E: 39B2
'O f(' 5B R: BɎ $
-' (!'<-# #' "
"' ('Q 5*B4* 9*B&/Ɏ ' ' 2' ?9/' 82B3' ='
25B R2B' 952' B:92' &25B R9B2' . 88 ' LL J' ! ; 2' 42'
53* ; :5Ɏ 3:93' 44E:32 ; 253Ɏ 25B R 3' 3 53' ?9&2+2'
<:9E 3' .28' <B:<:8' 43B 5J28' H42' + '49.=2882' 4& B+'
4 58' 23' 42' ; :'89B' + ' ; 4B3' 42' :582 J529BIɎ ; 8'
&25B R9B2' . 88 3Ɏ : 'S' 0$S
-' (!' 5B R2B' "
('Q =*B=* 9*B&/Ɏ 8' 'LL]' 2B ; 2' 4& K
JB .9+39B2' B2 ; 2B2' B 32' ?92' 3' + '.= BB9 '25' + +'
G:9B 53' LL ' 2B ; 2' 42'. B<253 2B' 2' 4 3' 428' < 2.28'
42' G: 8' ?9' G:93+88253 '952' 28<'.2' 42'.253B2' 23' 8&4+'
+: J5253' 25' :B ; 2' 42' B R:58Ɏ 8: 3' 4 58' +28' <+ 5.=2B8'
<+ 38Ɏ 8: 3' 4 58' +28' 2: ; G+28' + 5.=2B8' '25B R9B28Ɏ
3:B32' 42' <+ 5.=2B8' 38:+ E28' 4 8<:8428' 25' B R:58
-' (!'<-# #'
+' +! Ɏ 'Q 5*BN*@* ; 5*3NɎ 3N2/Ɏ < B3' '
" ' 29B8'= G 3 538' 25B J ; 25348' <:9BB 253' : B+'
5 B' 9' G28: 5' 428' 3B:9<28' 5: ; GB298280 A'A' :988'
0 ' "
! 'Q 5*B4*@* ; 5*3"/Ɏ /' ' :BK
; 2B' 25' B J ; 253' 5B J ; 2532B' 428' .: ; < J5 28Ɏ
428' 8:+4 38' LL J' B2' 253B2B4 58' 95'< B3Ɏ 4 58'
952' .:32B 2' +' 8&283' + 884' 25B'J ; 2532B' LL &25B +'
J ; 2532BɎ E' ' 2' ; 233B2' 4 58' 95' < B3Ɏ 4 58'
952' .:32B 2Ɏ 23' 25' 89 EB2Ɏ .: ; ; 2' 958:+4 3Ɏ 3:9328'
+28' ; <9+8 :58
' (!' 5' "' 23'
j' 'Q 5*B2*@*83B *G+&/Ɏ 4[' $9'
<293Ɏ ?9' 4: 3' N3B2' 25B2J 83B ' B:@23' 42' 42.+ B K
3 :5' 49' B: Ɏ 25B2J 83B G+2' 9' < B+2 ; 253Ɏ 25' E29B'
428.: ; 44 258Ɏ ' 233' ">?#/ - '7' : .3' "CN
+ Ɏ 'Q 5*B2*@*83B Ɏ 83B42Ɏ :9Ɏ 89 6
E 53?92+?928*958Ɏ 5*B2*@*3B2/Ɏ < B3Ɏ " '98'
8.B 3' 89B' 95' B2J 83B2' LL B 58.B 3' < B' 952' .:9B'
8:9E2B 52' 89B' +28' B2J 83B28' ! +JB4' + 'B2.+ ; 3 :5'
428' ; J 83B 38Ɏ + G9++2' H 5 J25 398>' 9325B2J 83B22+'
3:93' <+ Ɏ 42' JB2' :9' 42' :B.2Ɏ 8:98' +2' <: 48' 42' & 9+'
3:B 32' B:R +2Ɏ 5& ' ! ' ' , ' :>,/
3' Ɏ <' NCɎ 4 58'
! 'Q 5*B2*@*83B2* ; 5Ɏ 9Ɏ 89 +'
E 53' ?92+?928*958Ɏ 5*B2*@*3B2* ; 5/Ɏ ' 'LL 6' .K
3 :5' 4&25B2J 83B2B' &25B2J 83B2 ; 253' 428' .328' <9K
G+ .8' 9B2 9Ɏ 4B: 3' 4&25B2J 83B2 ; 253' LL A2' ?9' 82'
<2B?: 3'89B' &25B2J 83B2 ; 253'428' .328' ' 2B ; 2' 4& 4+'
; 5 83B 3 :5' B2.329BɎ B2.2E29B' 42' &25B2J 83B2K
; 253' ' G8:+9 ; 253' &25B2J 83B2 ; 253Ɏ & 4 ; 5 83B +'
3\ 5' 42' &25B2J 83B2 ; 2=3' 2'@2952=: ; ; 2' 82' 4283 52
2' &25B2J 83B2 ; 253' LL 6' .32' < B' +2?92+' 952' .:9B'
8:9E2B 52' 8 33B 58.B B2' 89B' 828' B2J 83B28' 952:B+'
4:55 5.2Ɏ 95' 4 349' B: 'LL 6' 2' ?9&:5' .B 3'89B'95'
.:53B 3:9' .32Ɏ <:9B' B2' : '?9& +' ' 34' 25B2J 83B
-' (!'<-# / # #
'Q 5*B2*@*83B Ɏ :9Ɏ 89 E 53' ?92+K
?928*958Ɏ 5*B2*@*3B4/Ɏ 5 ' ' LL Ɏ :32B' ?92+?92'
.=:82' 89B' 95' B2J 83B2' LL ; + _B2 ; 253' B254B2'
5:32'>2' 52' 89 8'< 8' '<:9B' 25B2J 83B2B'3:9328'828' .K
3 :58' ' B 58.B B2' :9' ; 253 :552B' 95' .32' 89B' 95'
B2J 83B2' <9G+ .' 5B2J 83B2B' 95' BB 3Ɏ 95' .32' 42'
E2532' LL ' 5. 2552 ; 253' B2Ɏ 25' < B+ 53' 4&952'
.:9B8:9E2B 52Ɏ &25B2J 83B2 ; 253'4&952':B4:55 5.2'
2'< B+2 ; 253'B2 98 '4&25B2J 83B2B'+28'5:9E2 9A' 4 38'
'; 5 283 3:5' :9' 583 ++ 3 :5' 4<8'< B8' 4 58' + 9B8
: .28' 283 .2' ?9' ' A' +29B' 5. 25523 ' E 53' ?9& +'
R' 2 3' B2.3 :5Ɏ 25B2J 83B2 ; 253Ɏ 3B G95 +' 25B2J 8+'
3B 53Ɏ : ' Ɏ "C'LL"]' &25B2J 83B2BɎ 3UB2[I'
B2' 25B2J 83B ' 28' <B:<= 28' 8&25B2J 83B 253' 4 58'
+28' B.= E28' 49' 32 ; <+2Ɏ 'D '+Ɏ N
-'# ' !J 8' .328' < B' ; 83B2' >2= 5' +2' 428'
<258 2B' 25B2J 83B2BɎ 25' 8:5' < < 2B' 42' + '428<2582Ɏ
+2'@:9B' ?92' E:98' B23254B2M + ' . ; G23 2B2Ɏ 8:5' 5 : ; '
23' 42' 8:5' <2B2Ɏ D - / #' 5Ɏ ' L' AE6' 8' B' B2+'
3:9B5:58' 9A' G28:J528' 42' :B3 5J + ' 5' ?92' 9'
32 ; <8' ' E25 B' :5' +28' 3B:9E2' 28.B <328' 23' &25B=9 8+'
3B 28Ɏ 88' 5Ɏ ; Ɏ F' 29A' .+2B.8' <:9B' 28.B B2' 23'
25B2J 83B2B' +2 '5: ; 8' 42'.29A' ?9& +8' 3B:9E2B: 253Ɏ 5U'
' '
-' (!' '"Ɏ 23'# / # 3' <B:E25^Ɏ -# / # #
' 'Q 5*B2*@*83B29B/Ɏ ' ; ' 2B ; 2
42' <=R8 ?92' << B2 +?9 25B' 83B2 9B23' ; 28VAB2'
.2B3 58' <= 5: ; 528' 32+8' ?9& +8' 82' < 88253' LL ?"/'
<< B2 +' 25B2J 83B29B
-' (!'<-# / # #
'Q 5*B *52/Ɏ 5' ' BB 32B' 23' 5:92B'
+28' B 528' 428' .=2E 9A' 42' . BB:882' :9' 42' 3:932' 93B2
E: 39B2
'$- ?' /' ' "%'H/"
3' 'Q 5*B *5: *B&+Ɏ 'a' 2B ; 2' 42' ; +'
5 J2' ! :B.2 9' 42' G: 8' 9?92+' :5' 33 .=2' +28' B 528
#'Ɏ c 'Q 5*B9* ; /Ɏ # ' ' +223 '
4&95' B=9 ; 2' ' 5&283' <: 53' 25B=9 ; ' <:9B' 4:B ; B'
89B' + ' 32BB2Ɏ 7 Q'@ 'ABE' : 3*:5' +28' B_.28'
25B=9 ; 28Ɏ + 28Ɏ '.2' ?9&#:B .2' 4 3Ɏ E2.' 598'
..:939 ; 28' '42582B' 8 58' G:5523' 42' 59 3Ɏ :9+ 53'
4&95' < 24' 59' +28' <B B 28Ɏ 6 '* '4'C '"'
+ ' ; '"C 'LL B' <+ 8 532B 2' 3' 49' . 5:5'
G:9BJ2: 8' + '.9+ 882' 25B=9 ; 2' :9882Ɏ 23'@2332' 4 58'
& B' ; ++2' B 5:8' 42' 9 ; 2Ɏ (Ɏ@ # '7#'
'! "A 'LL J' 9'< 24' 49' 3B 52' 952'= B<2'
82' B:9 ++2+' B428' 49' 8 .B2Ɏ 328*E:98' 25B=9 ; 8^'
7'D B' A #'LL 9G83 53 E2 ; 253' 5'25B=9K
; ' & 5B=9 ; P 3 3B2' 4&952' .= 58:5' 42' B 5J2B
! 'Q 5*B9* ; /ɎW ' : 982B' 95' B=9 ; 2'
2' ; : 54B2' .= 5J2 ; 253' 42' 32' ; <8' &25B=9 ; 2'$9: 2'
< 8' 95' 829+' <23 3' .:9<+23+' = 58:55 2BɎ 4 8*5:98'
?92+' 283' 2' ; +Ɏ ?9 '32' .:589 ; 2^ -' ; 8Ɏ +' <+293Ɏ
+' <+293Ɏ +' <+293' 428' +:38+' & B' 283' ; +8 5Ɏ @&25'
<2B48' + 'E S+' ; 8Ɏ 2&283' + Ɏ' 9 Ɏ :&283' .2+ Ɏ Q'283'
.2+ '?9' ; &25BG9 ; 2Ɏ <' -#&7" 'L' &25B=9+'
; 2BɎ 5 ' ; ' :53B .32B' 95' B=9 ; 2' 2' 8&283' 25K
B=9 ; 2' 25' 8:B3 53' 42' G +
-' 'A #6(' '4 83' 9' +29' H+: : <'n?92' ; :+3' 28+2 3'
5B ; 2MɎ 8' ?9& +' 52' <:2 3' 2' +' 8253 B' 892' H8 @'
+ B29BɎ 6 I ' AAAE9'LLABE6' 8' '3:83' ?92'
&28<B2E 2B' '+2' < ' ; :9+ Ɏ +' 42E 253' 25B9 ; '23'
; + 42Ɏ D - / #' ; Ɏ 'LL AE6' 8' +9 29B8' J258'
3 53' 4&2J+ 82Ɏ 5:G+28Ɏ ?92' 49' <29<+2Ɏ B253' 3252K
; 253' 25B29 ; 2M' 23' 253:9882M ?92' ; 2BE2 ++28Ɏ A9E'
' 8 Ɏ 1& # ' '"' 2.R' 283' G:5' .=2+'
E +Ɏ ?9 53' +' 283' ; :BE29AɎ 23' 988'6' : ; : 2Ɏ ?9 53'
+' 283' :B3' 25B 29 ; Ɏ 1& '"'H !-'0& 7 '<'
" %Ɏ '4 58' 'LL AE 6' 8' B2' 25B=29 ; 2B'
9M' 3B 52G 28Ɏ '1!-' '
-' (!' 5' "Ɏ 23'#&7
3' # 'Q 5*B9*5 /Ɏ 5' ' + .2B' + ' 3 32'
4&952' < 5J 2' 6' &2A3B ; 3 '49' +' 42' + 3:=
Ɏ 'Q 5*B *.= Ɏ .= 2/Ɏ # ' 4Ɏ25+'
B .= B' LL ' 2E259' B .=2' 5B .=' < B' 4&=29B29828'
8<2.9+ 3 :58' &283' < B' 3:'?9&:5' E 'E: B' +28' ; 9828'
25B .= 28Ɏ 2' +29B' +:5J92' 4 82332 @ ; ' B 5.= 28Ɏ
:5' P ' ' = B+28' < B3 3' 42' A2Ɏ 89 E2' 4&952'
B ; 2' 42' "F ' =: ; ; 28Ɏ 93B2 : 8' .:9E2B32' 42' 2BɎ
23' +:B8' GB ++ 532' 4&:B' 23' 4& BJ253Ɏ 23' 25B .= 2' 428'
4 <:9 +28' 42' + ' :+:J52' 23' 42' + ' A2Ɏ '1& #N
'K '"' ' 9G83 53 E2 ; 253' 28'25B .= 8' ' :9E2 9A'
25B .= 8Ɏ E:98' 3 .=2M 4&25' ; <:82B' < B' E:8' = G 38+'
'2?9 < J28' 23' 428' B8' ; <:B3 538+' ; 8Ɏ 25'
E: 9+ 53' . .=2B' ?9' E:98' 328Ɏ E:98' +2' 328' 42' ; =+'
42BɎ * AɎ < '0 # ' 1<75# '3' BEɎ <'
N Ɏ 4 58' 7 'LL ' :53' +2' <B A' '3' 9J+'
; 253 '< B' ?92+?92' .=:82' 42' <B .2 A' 52' G J92
"/'-26-'" #'" #-0+0/%(' LLBɎ J' 2' 4 ! ; &-2' "/'-26-'
#!'%'-;!%#'" /*(' .H"(' B: 3' &:5'#*-%' @:932B' ; 2BK
."-&&"(' (!' " + " ' ."-&&"(' ' < ' .-
'Q 5*B *.= E/Ɏ 2' ' LL Ɏ 254B2' B .=2
2'3B .' & 'G 25' 25B .= ' 2' 32' B283 39 '4& G:B4' 32'
< 3B ; : 52+' >2' 3&25B .= 8' <B 8'428' 4 <:9 +28' 4& 5+'
3: 52Ɏ ' 1 - - 'EɎ "' + G 882' '5:8< 248+&:B+'
J92 +' 428' 4 4 ; 28' H428' B 8I' +' <B254' 4&29A+28'
3B G938' 4:53' +' 5:98' 25B .= 3Ɏ ; '3N' Ɏ "' .=2'
?92+2' <B:E 5.2' 25B .= 3' +28' 3B 3 538Ɏ '@" '.!-
28' : ; 58' ?92' + ' J92BB2' 25B .= 3' 42' 5:8' <2B328Ɏ
'D &#' ++Ɏ "' ' G8:+9 ; 253' 2' 3B E +' 25B .= 3'
' B'2A3258 :5Ɏ '824 3' 42'3:93' .2' ?92' &:5' .: ; K
< B2' '952'B .=2882' 583' +2' . 2+' E:98' E293' 25B 2= B'
42' ; ' <2B32' H42' :2' ?92'@2' <2B48I 'K # (' 6
! ' FɎ ! 4 ; 2 ' ! +2' + G2B3 8 'E:8' .= +528: 2B328'
2 ; G+253' E:98' 25B 2= B' .= ?92' @:9B' 42' 5:8' <2BK
328Ɏ ? ' Ɏ " ' '<2832 ' < G+2' 4&23 B +'
.= B' 25' 95'@:9B' & .= B:5Ɏ ' 'b0 'E Ɏ " 0
' J' +' 82' 4 3' 988'428' B .=28828' ; :B +28' ++2' 5& '
3B ++ ' ?9& '25B 2= B' 8:< B52Ɏ 'D # - /7 '
?' '# - '" '@7 " '4 :8' 6 ' + '. 2+' 42' 828'
G 25 38' 25B .= 3' 8 58' ; 8932Ɏ ' #9 ; E' EɎ W
"' :93' .2' ?9& +' H&25 53I' : 3Ɏ 3:93' .2' ?9& +' 253254'
+2' B <<2Ɏ 23' +' 8&25' 8:9E 253' 3:93' .2' ?9' &25+'
E B:552' 283' +2' + EB2' 4 58' +2?92+Ɏ 8 58' R' 8:5J2BɎ +'
25B .= 3' .:53 592++2 ; 253' 8' ; ; : B2Ɏ 25' 33254 53'
?92' 8:5'@9J2 ; 253' <9 882' 25' <B: +2BɎ A'A' :988
C ' ' 'F' B5 B' 42' $92+?=2' :B52 ; 253' B .=2' :9'
<B .29A' 5B 2= B' 952' ; :5+B2' 42' < 2BB2B 28Ɏ 95'
EB2' 42' J9B28' 5B 2= B' Q $'<:B3B 3' 42' 4 ; 538
' J' +' 82' 4 3' 4&:B52 ; 2=38 ; :B 9A' :9' 532+2.392+8'
5B .G '+ '8. 25.2' 4:'5:9E2+28' 4 .:9E2B328' 5+'
B .= '8:5' <: ; 2' 4&95' 5:9E2+' < 8:42' 23' 93248' '
25B .= '8:5' EB2' 42' B2.=2B.=28' .9B 29828' LL 5B *Ɏ
.= B' 952' + 5J92Ɏ + ' 4:32B' 4&2A<B288 :58' 5:9E2++28Ɏ
42' 3 9B59B28' =29B29828Ɏ +' H .52I' ' :B3' 25B .='
+ '+ 5J92Ɏ 5:5' < B' 428' 2A3UB288 :58' 5:9E2++28Ɏ ?9& +'
333' 3:9@:9B8' G 8 B42B' 3 8*8:GB2 ; 253Ɏ ; 8' < B'
B3' =29B29A' E2.' +2?92+' +' 8 +' B 95 B' 2582 ; G+2'
+28' 2A<B288 :58' 2:55928' <:9B' 4:552B' '8:5' E2B8' :9'
<+98' 42' :B.2' :9' <+98' 42' JB .2Ɏ !› ' ' ! '
' & '8D 7 Q '3'BEɎ <' "NCɎ 4 58' 7 'LL B'
53 <GB 82' 23' <+ 8 532B 2Ɏ 25B 2= B' + ' + 5J92Ɏ <B:+'
5:5.2B' 428'@9B2 ; 2538Ɏ 428' ; + 4 .3 :58Ɏ 42' JB:8'
; :38' ' 93' E: B' 42' ?92+8' ; :38' 2+2' 25B .= 3' + ' + 5K
J92Ɏ 5:5' @ 'O' I' &25B .= BɎ 5' # 8' ' 2E25 B'
B .=2' +' 8&283' 25B .=' < B' +2' .: ; ; 2B.2' & B429B42'
8&25B .= B' .= 882' + 'G:552' : Ɏ ' ' ' :5' 4 8+'
53 B2882 ; 253' 52' E25 3< A42' 8 ' :B39520Ɏ +' 25 ='
428 < B 23 B2Ɏ 2 B' +' <&283' < 8' B B2' ?9&95' G: ; =2'
B .=2' E29 ++2' 8&25B .= BɎ 'D!7#" -' :33E253'
+' 5&R' '< 8' G 25' +: 5' 42' & E B .2' '+ '3B G 8:5' 23' '
+ '<2B 4 2+' 23' &:5' 52' <293J9 B2' .: ; <32B' 89 '+ +'
4 + 3 '4&95' J 9 B +' ?9' '+ ' < 88 :5' 42' 8&25B .= BɎ
3 D ' -(' 1<75# 'E Ɏ <' "Ɏ 4 58<: +' 6
' : =2' 3 53' 952' E +2' 58 .: ; ; 2B.2' 23' <B28+'
?92' 8 58' B38Ɏ +2' < ++ J2' 3 3 +2' 829+' ; :R25' ?92'
+28' < B3 .9+ 2B8' 2988253' <:9B' &25B .= BɎ 6 <'
. ! ' ' ' 2B ; 2' 42' ; 529B' 5' + :5' 8&25B .= 3' + :B8+'
?33&' 42B 253' :9'<+98' < 8':9'<+98' .= BJ '42' < B828'
; 3 $?928'LL%' B'2A3258 :5Ɏ 42E25 B'< :8828829B'
4&:G@238' .:58 4 B 8' .: ; ; 2' <B .29A' <<B:.=2Ɏ
=29B29A' B E +Ɏ =29B29A' .=: A' 4&952' 5JB 32+' &283'
4:52'<:9B' 8&25B .= B' 4&95' 8' 5:G+2' G93 5' $9&2+ 2' 8&283'
:G83+5 2' '89 EB2' 8:5' 4283 5Ɏ ' , & ! " ' 5' N
2' E:98' <+ J52M <+98Ɏ '@&:82' B5&25B .= BɎ 82 K
J529BɎ 42' :8' B2 98Ɏ ; '@ # ' ; Ɏ ' 9' E29A' ?92'
4&95' 8' .=2B' 23' 8' 5:G+2' 3B 8:B H952'@2952' + +2I' 28'
B ; 52++28 ; 58'8&25B .= 882:3' 25 .:BɎ 9 ' -
0 ' 5'8&2 B .= 3' 49'G 25' ?9&:5' 3' .2' ?9&:5' ; 2Ɏ
' 588 Ɏ 0# ; ' "' ' !" ' Ɏ F' LL N6' @J' 2+'
.2B: BɎ <B254B2' 428' B .=28828' 532++2.392+28' :9' ; :K
B +28' ' ; ; : B2' 8&25B 2G 3' < B + '+2.39B2' 428' G:58'
+ EB28' +' .: 32' ; : 58' .2B3 58' =: ; ; 28' 42' 8&25K
B .= B' 42' ; ++2' E2B398' ?92' 42' 82' .:BB J2B' 4&95' 829+'
4 93Ɏ ' O ' + 3:5' 8&25B .= 3' 428' 4 <:9 +28'
42' .B 32Ɏ 4& # B .+ 32' 23' 4& 5 A J:B2Ɏ
<25Ɏ " ' 52' & ! '<((' 'E92' 8&25B 2G 3'
9A' 4 <258' 49' 3:9.=2BɎ .: G ' ,# " ' - ' 5 Ɏ
"' 5' J2' 8&25B .= 3' 428' <2582B8' 4&95' 93B2' J2Ɏ :'
- ' ' ,#! '# / - 'E ; '# B:E2BG2' $9' 8&3 ; +'
?9 332' &25B .= 3Ɏ :9' ?9' < 2' 828' 423328' 8&25B 2G 3
- # Ɏ A56'8' ' B2' 3<:EB2' 225B .= 83Ɏ =9 ; +'
+ 24' 2' 9M+2E24Ɏ + '<' BM ' 2' 5:M E2 B8Ɏ
8 58' 59+ ; 253 BɎ H I' 28' .9 42' 28.B2 83B2' 2' 25B 2= BɎ
'Ɏ Ɏ F7N 'LHO I' F' 9 '=:+B8' 52' 4: 3'25B ?93'
49' 3:3 23' 8:5' <2B2Ɏ Q' AA Ɏ "C' #A E6' 8' ' 5'
'?9:R' +' H95' 3RB 5I' 32530 E&283 8:R' 2552= 2B23' 8:5'
<92<+2' ; 233B2' 25' 82BB 39320 ' < & ' FC' >2'
<B' 29' ?9&2=' 25 2B' 8: 253' 3:58' .25M 4 ; 5 8' $UJ
3 53' :53' 25B .=' 2E28?928' 23' GG 8Ɏ H7 (' B
$9' 3B:<' 82' = 832' 42' 8:R' 25B 2= BɎ +' 52' 82B 0< 8' 5+'

5 : .253Ů C 4- / #' Ů' 6' ' 82' ' :9+: 3' 25B .= '8 BŮ
Q' 6 NŮ B2.3:' ŁL ; 6' 8' B 53 +2J' 4 29A'
?9ł +8' ; 2' 4 :55253' 'JB .2 4ł2 B .= B' H42E25 B' B .=2I'
42' G :5' .?9283Ů 9 ' :45 Ů 322' '@ł ' < B' .2832'
3B 49 .3 :5' ; 2552' 9 .952 ; 253' 25B .=R' :9' Ů <:+R
E :83B2' + 5J52Ů =:5 :B4' E :83B2' B2J52 ' ! Ů+ :B: '
' <' 32' $ E293' 25B .= B' 25' 5Ů 82' 3' <254B2'
25' 8 A' ; : 8Ů + 8 : :A' 58' " 'O / ' '5Ů' < ' " 7'
:GG2' 25B . ; 2' 42' GB :42B 2Ů ' ' ED
- ' N (! ' @ - ' 3Ů 23 # (& ' E2.' + ' 32B ; 33 8 :5'
E2B3 +2' UP' <B :B25<' -# =7 S #' # =7 # ' -##)'
=7 # ' -# =7 #3' 28< J5' -# =Q #3' 3 + ' -# ((& #
! ' 1Q 5*B *.G D' 2* ; =/ Ů 8' ; '
'Zb' .3 :5' 42' B254B2' B .=2' ŁL 6 .3 :5' 4ł 9J ; 2532B'
+2' <B A' < B' ?92+?92' .= :82' 42' <B . 29A' ł25B .= 882*'
; 253' 4=9' = G 3Ů 4ł95' < + 8' 2' 3B :9E2B 3* :5' < 8' BK
4 .9+2' ..+9' ?9 Ů E :R 53' 95' = G 3' 42' 4B :J923' 3 :93' . :5K
E2B3' 42' GB : :2B 2Ů <B 3254B 3Ů < :9B' 25D 23 B2B' 952'
'3: 28' . : ; ; 952Ů 25' 4' 3B9 B2' 3 :98' +28' 25B .= 882*'
; 2 :38Ů <35. B' ?9ł :5' 52' +28' < :9BB 3' 84< B2B' 4ł952'
93B2' ; 5 4B2^' 9 8 4 Ů 23 3 ; 8Ů 0< '8 e ł2=*'
B .= 882 ; 252' 458' 32 ; <+28Ů # 6 ' Ů' 2 ' LLF6 J'
82' 4 34222 ; G2 882 ; 2538' ; :B 9AŮ 532+@2.392+8'
+334B B28' :98' +28' 32B ; 28' 8 :53' 533B 29B8' = 828' .K
3 :58' H49' B : IP' 23' < B3 53' B2 : :55 88 :58' ł E 53 J2'
?9ł ' 5 :3B2' ; 3 4B2' :5' 4 :552' 428' 25B . = 882 ; 2538'
9A' 93B28Ů ; 8' + +28' 93' <B254B2' 42' .2+2*. Ů 23'
3= .=2B' 829+23< :53' 42' 52' < 8' J=32B' .2' ?9ł + 5ł283 < 8'
< :88 G+2' 4ł2 ; G2+ BŮ ; ' 'O * ' .= ' N' >ł ' <B 8Ů
< :9B' ; ł2A<+ ?92BŮ 95' 83R+2' 8 ; <+2Ů 23' ; 4' . : ; 2532'
4ł952' 2A<B288 :5' 592' 42' ; 28' : < 5 :58Ů G :5528' :5'
; 9E 828Ů 8 58' R' .=2B .=2B' 9 .95' 25B .= 882 ; 253'
4ł +:?925.2Ů 'O '4 8.' L> ł25B .= 882 ; 253'
4ł952' \35J92Ů ' .?9 8 3 :5' 42' ; :38' =: E2 AŮ 42'
3 :5B59B28' 5 :9E4+28' 29A' ?9 ' 8 :53' 549+<@2538' < :9B'
+28' ; :38' <98 3 8Ů E :B 8253' 23' <B : .9B253H ł25B .=+8*'
82 ; 253' 42' + ' + 5J92Ů 6
- ' # 'S 6 8' 92.29A?9 4 :55 :R2534 E 53 J2'
< :9B' B :B523< :53' 23' ł25B .= 882 ; 253' 42' ł J+ 82' 28*'
3 :R253' +28' <+98' = 938' 25' < B 4 8Ů Q ' B'
B 58' +29B842' + 8Ů 8 + ; 25428' H8 + ; 54B28I' 23' 9K
3B28' 25B .= 88235258Ů C #(C' 'D A ' " '1& # '
6 8 B 2Ů 3' ' *
- ' (#' <-# (& #
3 # _3 5*B * ; 4/Ů E' ' 2B 52' 4ł4< 5J+ 2B'
R5 :5R ; 2' 4ł25B=952B
j' >3 'Q 5*B :*G /Ů . ' : ' 2B ; 2' 42' 4 :9 52'
2B 3 B' 4ł95' 253 :9B J2' 4283 5 ' \' 2 ; < .=2B' + ' E*'
8 32' 428' :G@238' 5 ' 25B :G 8' :9B' @ :5 B' 42' + 'GB 5*'
.G 82' 428' 4B : 38' 42' 4 :9 52Ů .2B3 528' 89G83 5 .28'
4 : E253' 3B2' . :5325928' 4 58' 428' 438' 25B :G28Ů :
$
- ' (! ' B ' 3Ů 23' B :=2
3' ! 'Q 5*B :* .=2* ; 5/Ů ' ' :G*'
4 3 :5' 25' B :<=2' 89B' 95' 8 : + 89G ; 2BJ ' :9' ; :G +2
' e 'Q 5*B :*.= Ů /Ů E' : B2' 95' 25*'
B : .=2 ; 253
- ' (@ ' <-' 3Ů 23' # ! &
+ 3 ! 'Q 5*B=*4 *82* ; 5/Ů '5+ 3 3
42' .2' ?9 ' 83' 42 25 ' B : 42
- ' # 'S 68' +.9+3 42' ; :9E2 ; 253' 42' ; 2 ; *'
GB28' 23' 25B : 4 882 ; 253Ů 6 ' 'Q ' 23
- ' E $ ' <-' ; ' 23' # ! "
'Ů' Q 5*B4* NŮ + 2/Ů # ' ("
6' 9 283' 25J J 9' 82BE .2' ; + 3 B2 S28' G< ; ; 28'
5 :9E2+2 ; 253' 25B : +8 ' ŁL 9G83 53 E2 ; 253' +28' 25B 6'
+28' E :+:53 B28' ŁL Ů J' $9' 8ł283' 4 :55 ' ' ?92+?9ł95'
:9' ' ?92+?92' .= :82' ' ; 2' 3B :9E ' 95' <29' 25B + 2'
4 58' + ' 8 .B42' < B2882Ů 8 E' BA' ! ' +2' <B28' 4253'
5 9+3Ů +2?92+Ů 25B4+ ' < B ; ' +28' 9329B8Ů 5ł23 3'
< 8' 2A2 ; <3 42' +29B8' 4 938Ů ' ' '1 !-
S ' # 9G83 53 E2 ; 253' A.2<3 '+28' 25B4+ 8' E2.' ! ' 4X
! 52Ů +2' B2832' 49' ; :542' 93' 3B 5J2 ; 253' ; 4*'
. :53253Ů 8B* # !Ů " "Ů 8Ů
! ' Q 5*BN* 2* ; 5/Ů 8 D ; ' .3 :5'
4ł25B4+2B' :5' 42' ' 5B +2B' B2' 428' 25B4+2 ; 253 '
' ł .32Ů + ' 29 +2' : :583 3 53' B25BG+2 ; 253' J52B'
8 :5' 25B +2 ; 253
- ' # 'S 6F' + ł25B : +2 ; 253' 49? 2' + 283' 4'
< B+4' 8ł253254' 42' + ' E : . 3 :5' < B' + ?94+2' 29' 42K
.+ B2' ?92+8' 8 :53' .29A' ?9ł + 2+98Ů ' 33
Ů - ' (! ' >
' Q 5*B +*+4/Ů W' ' LLD+6' 58.B B2' 89B'
95' B +2Ů 23' < B3 .9+ 4B2 ; 253' 89B' +28' B4+2< 42' ł B*'
; 42' 5B4+2B' 428' 8 :+4 38' 5' 5ł25B + 3' ?92' +28' . *'
3 :R258' ?9' E 253' 95' < 3B ; : 52Ů < ' . !
O ' ' J' Ů + E 53 ; 28' <4 .=48' 42' ł2 9' 49' 8 53
G <34 ; 2Ů 9' 4 ł25B +28' 9' B 5J' 42' 3 53' 4ł=29B29A'
8 :+4 38Ů #- & '@ ' < - ' EŮ N' :+3 B2' 29' B3
; 2832' .G2S' 95' <29<+2' . <B . 29A' 23' ; G+ Ů 42'
B254B2' ł 5 .B449 54' ' + ' ; :42' + 25B4+ ' 3 :98' +28'
; :9B8*<B :<B284 58 .2332' + J92' 58258420. 5 '
2532' Ů' 3Ů' 3 ' If O ł253N+2BŮ E' # ' + 33X 9

82BE .2' ; + 3 B2' ł25B4+2B' 4 58' ł 5 532B 2' ŁL J'
ł25B +2B' 4 58' 95' < B3 ' 8 8ł25B + B253' 9' 82BE .2'
42' 429A' G2 93 8' ?92' 28' <B2 ; 2B8' .=2E + 2B8' 4ł= :5*'
529B' .44=B253' 988 3 +3< B< :+ 32882Ů 6 JB ; ; '
" ' + H+2' .9B4' 42' 53* 9+I' 4 ++ ; :B32 ; 253' .253B2'
+28 . :5 B4B 28' Ů23' ; 25 < '4ł2A . : ; ; 9 ; . 3 :5 .29A' ?9 '
8łR' 25B4+2B 253Ů : 'O # ' U<75# '
3' Ů < ' Ů 4 58' 3 8
- ' # 'S 6 8' ł253 :B3 +253' ' ł253 :9B' 42' +29B'
= 8325' B :54 ' + :B8' +M 28 .B E253' 89B' +2' < B .=2 ; 5'
58' 25B :+ ' H25B :9+4I' .2' ?9ł +M E29+253Ů ' +)'
- " ' ' + 2' 3 25B : +2B' 82+ :5' + ' . :9839 ; 2' 428' 2K
; 58' 95 : ; GB2' 428' @29528' = : ; ; 28Ů '?- ! - ' 7 '
258 : *5 :98' ?9ł ' 2G 8?92 B?92G98 42' ?9 ' 5 :98' 3 :9K
.=2Ů 23' ' .= 8?92' = M B4' ?92' 5 :98' . :9B :58Ů 'R' 3'
8 :9G4 5' 95' JB2 2' ?9' ł25B : : 2^' ' 6 ' $%
' ' <- ' 23' #
' Q 5*B *+29B/Ů ' ' 2+9 ' ?9 ' 25B +2'
428' 8 :+4 38' +2' < <2' 25B + 53' 428' 8 :+4 38Ů +28' 2 ; K
; 28' < 9B89 E 53 +28' 25B +29B8' ' . :9<8' 42' < 2BB2Ů
' " ' " ' "6Ů : .3 :GB2' CNF
- ' ? ' <-#" #
3' $ 'Q 5*B :*\4/Ů W' ' 2B ; 2' 42' <4 .=2'
E2B' 428' ; :B928' 4 58' ł2 9' 42' ; 2B' <B48' ?9ł2+28'
:53' 434' 3B 5 .=428'
' Q 5*B :9*4Ů 42/Ů # ' ' 9' '
42' ł25B :92 ; 253' ' + ' 5 39B2' +9' ' 4 :554' 952' E : A'
25B :942Ů ' / ' ' ' .=2?92' 583 53' B24 :9*'
G+253 +28' 5@9B28Ů 28' JB28' 8 :58Ů +28' 25B :948' ; 9B*'
; 9B28Ů @ ' ' < ' Ů' N' 25' 5ł283' <+98' 4 5*'
J2B29A' ?92' 42' .= 532B' + :B8?9ł :5' 283' 25B :94' 2ł283'
B 8?92B' 42' <2B4B2' 8 ' E : AŮ HB ' 7 ' ,& # '
@ "7 <- ' / " '5Ů' ' >ł ; 2' <B48' +2' . : ; G 3 ?92'
8 ' E : A' H49' EB ' 8 :+4 3I' 25@ :942 2Ů 23Ů' 428' :B 8' 42'
J92BB2' 25 .2B' 3 :93' 25B :942Ů G 532' +28' = :9B 8' 23'
ł ; :9BŮ E' 6 7 ' # - ' N IL' B+2B' 25B :94Ů <9BK
+2B' 4ł952' E : A' 25B :942
! ' Q 5*B :9* ; 5/Ů ' ' +34B 3 :5'
< B3 .9+ 4B2' 42' + ' E : A' 23' 42' + ' 3 :9AŮ ?9 ' +28' B254'
J :9B428' 23' E : +428' 28' : .=2 :9. 9+4' 9B253' 3 :932'
+ ' 59 3' 4 58' +29B' @ B4 5' <2?4 53 +2' 29Ů 23' +2' +25*'
42 ; 5' ł GG4' 42' # <B8 ++ .' 23' 828' 8 :29B8' 43 253'
4 58' 95' 25B :92 ; 253' 23' 952' 3 :9882B 2' < 3 :R G+2Ů
8 E' N 7
' ' <-#!7 #
' Q 5*B :9*4/Ů W' ' ŁL 6 982B' ł25B :92*'
; 253' 2' GB :9 B4' ł ' 25B 94' ŁL 6 ł25B :92BŮ 5 '
' 3B2' 2234' 4ł25B :94 ; 253' ł25B :92B' ' :B .2'
42' < B+2B' > ; 8' 4 : 2 B' B ; 4' 4ł95' BJ9 ; 253' B*'
E :+2' 2' 8ł25B :9 ' .=2M 29A' 89B' +28' G 5 .8' 4ł952' 4 . :+2Ů
'@ ' E 9' 5' B <<2B32' ?92' +2' < : 32' E 98' 5*'
4B :5 .98Ů ?9 ' @ :9 ; 3' 4 58' 952' 42' 828' < 4228Ů 8ł43 53'
25B :94' ' B4<432B' <+98' 2938' : 8' 428' 254B : 38' ?92' +2'
<29<+2' E + J : 348Ů 3' 3B :9E2B' G :5' ?9ł95' 28 .+ E2'
B4 . 3 3 +28' E2B8' 3 54 8' ?9ł + 2B 3 +9 * ; 4 ; 2' +28' J28*'
328Ů . : ' 1 ! - - ' & 7 ' 5Ů' Ů' " ' LL E2.' 89<<B28K
8 :5' 49' <B :5 : ; ' <2B8 :552+' :5Ů 5 :5Ů 39' 5ł B 8'
< : 53Ů B4253' G454 . 2BŮ B2' 25B :92B' <+98' 3 :'
:BG 5' 5 ' +2' ! M 2BŮ 01< '9
- ' # 'S 6 8' ł < :8+ :+ 28' H+2' < <2I' 393' 89+8' +2'
E :+2 3' ; 5325 BŮ 'G 25' .95938 ' . 982Ů ; 8' 52*'
< :2 3' :ZB' ' B' +9B' .B M 2' +9B' 5 : 82' ł :B253' 3' 25*'
B<+BŮ ,& ' ' # ' " ' ! 8' 3 53 .B 'E2B8' 2+8Ů +'E2B8'
+9 ' 33B28' H 988 nŮ 92' 39I' ' 25B :2M 42' + '5 : 82' 2' 42*'
.B Ů ' ! ! ' S 6 8' 93' ' B4 ' 29' ; 2B . ' < :B'
+2' 3B :G+2 ; 253Ů ?92' 3 :9M 89 ' 25B :92MŮ 0 7 # ' ' B '
' ; 6' 8' 38' :53' ; + 42' J :BJ2Ů + ' E : A' 25B :942Ů
'OO ' %' '
- ' # $ ' <- ' ' 23' +2' + 3 5' # 7 7 'QE :R' < G'
bX +:9Ů # 7(& - #3' 2BBRŮ -# 7 &" ' -#!7 ' 25K
B :94' J452E' -#!7 & ' 5' B2 ; B?92B '?92' +2' 2BBR'
4 3 -#!7 ' :B ; 2' ?9 ' 82' 3B :9E2' 4 58' 95' 428' <+98'
5 . 258' 2A2 ; <+28' 42' ł= 83 :B ?92
T - *@@ 'c 'Q 5*B :9* 4Ů 42Ů ' ; :9 ++428/Ů
< :B3Ů ' :9E2B3' 42' B :9 +2' ŁL J' 2' 8 E : B' 25*'
B :9 +4' 428' <44 538Ů" ' B 3 ?92Ů C
' 'Q *B :33* 2* ; 5Ů ' ; :9 +*'
428/Ů 2' ; ' .3 :5' 42' 8ł25B :9 2B' 43 3' 42' .2' ?9 '
8ł25B :9 +2
' - ' # 'AE '8' 5B :9 2 ; 253Ů 7
- ' (! ' <-#!7A #
5 'Q 5*B : * 4Ů ' ; :9 ++428Ů 23' 5 :5'
5*B :9*R4/Ů 5 ' ' ŁL 6' 254B2' B :9 +4Ů . :9EB B' 42'
B :9 +2' ł=9 ; 4 34' 25B :9 +2' +2' 2B' Ł 6 J' ł : 8*'
E234' 25B :9 +2' 28<B 3' ŁLF6' ł25B :9 ++2BŮ E' # ' 2*'
E25 B' B :9 +4' 2' 2B' 8ł25B :9 +2P' :5' 4 3' <+93 3 82'
B :9 +2' ŁL 2' < 8' + 882B' 25B 9 +2B' 828' 425380 ; 5J2B'
42' JB 54' <<43 3' $9 53' ' # B3258 98Ů + 52' + 88 '
< 8 25B :9 +2B' 828' 42538Ů' := ' ' ?9ł + +9 ' 8 3G :5' E : B'
B :5J2B' 952' .9 882' 42' < :9+23+' # - " ! - ' ' < ' " '
'V6 J' 25B :9 +2B' 25' <B :E 5.2Ů 5ł e 2' <+98' 9'
3Ů 9' . :9B 53' ŁL ł25B :93 +2B' 4 58' D :38 E2' Ů <2B*'
4B2Ů 8 :5' .3 E 34Ů 8 :5' <3 3942

- ' # Ů A ; 6' 8' ł28<42' + ' ; 5325 53' ?92BB2Ů
$9' 2B3 H43 3I' 25B : + 2' 23' B232' HB : ; <92IŮ 25
C 7' 988' + ' G : ; 8' ?9 ' X 8298' H : 8 I' 283' 3' B 258'
52' 3Ů 25' <2B + 283' $92' 882M 3 :83' 25B9 ++ 2M 2' 8 : +'
< B' E .28' 23' <2 .= 48Ů " " ' ,1 ' ŁLAE6' 8'
88 R2B' E92 + 82' @2' 8 9B :R2' ; 2B' 58' ' ?92' @2' 8 :9*'
+ :R2' 9' ; : 58' @ł25' 2B R' ; :5' < :E : BŮ : ; G 25'
?92' @2' . :5J5 : 8' 23' 8. R' 92' ; :5' + 5J J2' 3B :9E2B R'
93' 25B : + 4' 42' 5 :5 .= + : BŮ ' " ' # ' C" '
'S 6 8' 8 53' ; 28 ; 2' 42' :B ; 28' 42' < B+2B' ?9 8'
25B :9 ++428' 42' E 2 + 2882Ů 5' 42' . :9EB B' 3 53' ; 29A'
828' 3B : ; <2B 28' 8 :98' 32++28' ; 8?928Ů 9 ' $ ' F'
2' 2B' 8ł25B :9 ++2Ů ' ' ' 32BB2' 3B :<' GB9*'
E42' 52' <B :49 3' 93B2' =2BG2' ?9ł25B :9 ++42' 23' 42' ; *'
+ J52' 5 39B2Ů ' " ' ' M
' ' <- ' ' '#!7
3' ' Q 5*B :9*+ *@ł/Ů ' ; ' .3 :5' 4ł25*'
B :9+2BŮ 42' 8ł25B :9+2B' ł25B :9+ J2' 49' +
' ' <-#!7 "
! , - @ ' ' Q 5*B :9*+4Ů 42/Ů < B3Ů '
:9+4' 93 :9B' 52' + :5J2' 25B :9+ 2' 93 :9B' 49' < 24'
49' .G2E + ' ŁL =25 ++28' 25B :93428Ů .=25 ++28' ?9 ' E *'
E253' 4 58' ł 534B 29B' 428' 29 28' ?9ł2 +28' B :9+253' 25'
. :B523' ' :?9 +2' 25B :9+42Ů . :?9 +2' 95 E +E2' 4 8*'
. : +42Ů . : ; <B ; 42' 42' 4B : 32' ' J 9 .=2Ů 4 :53' ł A2'
283' 3 :93 ' 3' 3B 58E2B8 + 23' 4 :53 :5' 5ł <2B? : 3' < 8'
+2' 8 : ; ; 23' :?9 +2' 42 ; *25B :9+42Ů . :?9 +2' 25B :9K
+42' 42' 32+2' 8 :B32' ?92' +28' 3 :9B8' 42' + ' 8< B2' 52' 82' 3 :9*'
.=253' < 8* < B' 2A2 ; <+2' + ' . :?9 +2' 4 32' 8< B +2
! 'Q 5*B :9*+2 ; 5/Ů8' ; 'ŁL ' .3 :5'
4ł25B :5+2B' :9' 42' 8ł25B :9+2B' 43 3' 42' .2' ?9 ' 283' 25K
B :9+4Ů 42' .2' ?9 ' 283' 25' :B ; 2' 42' 8< B +2' ł25B :9+2*'
; 253' 4ł95' . :B4 :5' 93 :9B' 49' . :B<8Ů ŁL 6 2B ; 2' 42'
G :3 5 ?92' 4 :B ; 3 :5' 4 58' + ?92+ +2' +28' :BJ 528'
A +28' 428' E4J43 9A' 8 :53' . :9BG48' 42' = 9+ 25' = 8'
23' B :9+48' 89B' 29A* ; 4 ; 28' Ł 6' 2B ; 2' 4Ů :G8343B ?92'
8< :8 3 :5' 49' . :B4 :5' : ; G+ . + 4 58' + ?92+2' +
283' B :9+4' 952' :9<+98 29B8' : 8' 93 :9B' 4ł95' ; 2 ; GB2Ů
49' . :B<8' :9' 49' . :9' 49' :2398' ŁL"6' 2B ; 2' 4ł B .= *'
32.39B2' B52 ; 253' 25' + J52' 8< B +2' 'E :+932' 28395'
25B :9+2 ; 253' ŁL + 82' 4 3 988' 4ł :B52 ; 2538' 25J *'
J48' +28' 958' 4 58' +28' 93B28' 28' 25B :9+2 ; 2538' 49'
J25B2' B G28?92' ŁL%Ů 2B ; 2' 42' 82BB9B 2B' :53 :9B'
?9ł :5' 4 :552' 9A' 2B8Ů 23' ?9 ' <<B : .=2' 42' + ' E :K
+932' N6' 2B ; 2' 42' @ B4 5 2B' 5B :9+2 ; 253' 42' < BK
32BB2Ů <+ 328*G 5428' . :53 :9 ; 42825' 8< B +2
' (! ' >
' Q 5*B :9*+4/Ů W' ' :5 2B' <+98 29B8'
: 8' 952' .= :82' 93 :9B' 4ł952' 93B2' + ' B2<+ 2B' 89B'
2+2* ; 4 ; 2' 5B :9+2B' 952' < 422' 4ł43 : 2' ŁL ł25B :9K
+2BŮ ' ' :B ; 2B' <+98 29B8' 3 :9B8Ů 28' EB 28'
42' .2B3 528' <+ 5328' 4ł25B :9+253' 89B' +28' . :B<8' E : *'
8 58
- ' (! ' 5' Ů 23' ,
3' ' Q 5*B :9*9*Bł/Ů ' ' 5 . 25' R5 :*'
5R ; 2' 4ł25B :92 ; 253' B 5428' 25B :99B28' 23' 3 :9A'
E :+25328' , ' ' ' ' , 'H :98 S IŮ
- '
* # 'S 6 8' :53' 8ł2589 3' ' <+98+2 B8' =R43 :*'
< 8 28Ů <=3G 8 2Ů 25B :929B2' 42' E : AŮ . :9B32' G +2 52'
'22 '
' # $ ' > ,
3' > 'Q 5*B9*G *54/Ů 5 ' ' #4 :+ :J 8 ; 2'
EB B' 42' 8 B9G 58' = <2 9' 25B9G 554' ŁL B' < *'
8 532B 2' 42 :B2B' 4ł95' :9' 42' <+98 29B8' :B4328' # ł25*'
B9G 552BŮ / ' 2' < B2B' 42' B9G 58
' '> ' 23' ,1
'Q 5*B92/Ů ' ' 2B ; 2' 4ł JB .9+39B2' ++ :5'
:B3 + BJ2Ů . : ; < :84' 42' <+98 29B8' B 328' 42' 32BB2' B2*'
+2E428' < B + ' .= BB92
- ' (! ' > ' 23' , ' @ 0
GU[#, ' ' Q 5*8 *G+4Ů6' G 42/Ů " ' "
' 6 :J J4' 4 58' ' 8 G+2' 5' G 32 9' 258 G+4'
' ' :9E2B3' 428' G+2' 5' .= ; < 258 G+4' < B' +2' 44*'
G :B42 ; 253' 42' + ' B E 4B2
! ' Q 5*8 *G+2* ; 5/Ů ' G83B9.6'
3 :5' 4ł95' .=25 + < B' +2' 8 G+2' ?92' +28' : 9 ' :9' +28'
3 :5253' 3 :45253' 28' 258 G+2 ; 2538' J452 3' + ' 5 E J K
3 :5 ' ' .3 :5' 42' B2 ; <+ B' 42' 8 G+2Ů 23' 4' B489+3 3' 42'
.233' .3 :5' ł258 G+2 ; 253' 42' .2' 5 E B2' ' 434' :B3'
<B : ; <3
' ' <- A #
' Q 5*8 *G 4/Ů 5 ' ' LI ' B2' 4 .= :92B'
89B' +2' 8 G+2' 2' G 32+ 2B' 5 :98' '258 G 48' ŁL ' :9K
EB B' 42' 8 G+2' ' : B2' 82' 44G :B4 Ů 5 :54 '23' 258 W
G+ ' G2 9 .9< 42' < R8Ů ! ' F Ů ' ŁL 2 ; <+ B'
42' 8 G+2' 58 G+2B' 952' G B?92' ŁL ' 2B ; 2' 42' < *'
.=2Ů 254B2' 89B' 95' :54' 42' 8 G+2' 428' +238' 9' < 24'
428?92+8' :5' 52' ; 23' < : 53' 42' +283' ŁL" ' ł258 2BŮ E'
' 2G :92B' 4 58' +2' 8 G+2' 2' G 32 9' B 283' 258 G+4'
B : 8 4 58' +2J' 4292 +8' 8ł258 G+4ŮB253Ů ' # / ' '
' B2' B2 ; <+ ' 42' 8 G+2' 2' < :B3' 8ł258 G+2' J3 49 +*'
+2 ; 253

- ' # 'S 6 8 ' 28 2 9A 3B:9G+28 E2B8 53 29 <B '
B258 G+253 ?92+J92 : 8 @98?9&G 25 +254B2 5 2B3 +2
<:9B> ; 8 : ' ' ' 822
- 'c (# 'c5 ' 23 ' & 9G J540 D ' 9 U
' 4 3 * # ' 25 < B+ 53 4&95 5 E B2 ?9 ' .=:92
3 f ' 'Q 5*8 *G:*340 3 2/ # ' '
= 9884 42 8 G:38 ' LL_ ' ; ' :B5 42 82.3 B28 E 94: 8
?9 ' <:B3 253 42 ; 9E 828 .= 9889B28 25 8 J52 42
< 9EB23 ' 4E 5J + ?92 5 3B:9E2 988 '258 G +40 ?9 '
E 253 42 5
3 ! ' Q 5*8 *G:*32* ; 5/ ')
' 6 .3 :5 4&25B R2B 952 E: 39B2 E2: ' +2 8 G:3 '
' 6 2B ; 2 4& B3 ; + 3 B2 ' .3 :5 4&258 G:32B 95
G:9+23
' 'Q 5*8 *G:*3"/ 5 ' ' LL 6 = 9882B
?92+?9&95 E2: ' 428 8 G:38 ' LL] 5B R2B 952 E: 39B2
E2: ' +2 8 G:3 ' LLF6 2B ; 2 4& B3 ; + 3 B2 ' 58 G:32B
95 G:9+230 +2 ; 233B2 4 58 95 ' 8 G:3 42 G: 80 89B + '
<:94B20 9 8: ; ; 23 42 + ' J BJ:9882 ' 4 8<:8 3 :5 ?9 '
' <:9B G93 42 &2 ; < .=2B 42 3:9B52B 4 58 F ; 2
?9 54 + < B3
- ' (! ' 5 j 23 8 G:3
' Q 5*8 *.=40 .=G2/ < B30 '
! 8 4 58 95 8 . ' 4 258 .=4
' # ! ' Q 5*8 *.=2* ; 5/ 8 ' ; ' .3 :5
4&258 .=2B 42 ; 233B2 25 8 .
'Q 5*8 *.=4/ E ' ' ! 233B2 4 58 95 8 . '
58 .G2B 49 JB 50 4285: A
- ' # ' S 6 8 ' 3 . + H.28 ; : 528I 8:53 42 8 8
258 .= 4 HE4398 42 8 .8I ' 5 0 $ ' ≫ B ' &95
; 2=: 3 JB:80 & 93B20 .: ; ; 2 :9BB2MP >2 5&:R :5*
?928 3 58 42 @:R2 52 B M $92 42 E2: B +29B8 ; :B*
.2 9+A 258 .=2M ' ' 0 ! ' ' ' 70
4 58 # ' S 6 8 ' 5E B:5 3B: 8 ; + 8 .8 42 *
B 520 ?9 ' 283: 3 42 ' ' 258 .G42 <:9B 25B:R2B 9
. ; < 428 2552 ; 80 Q 5: ' ' %M2 ' + ' 8328
<+98 42 ; + ?92 42 G 25 9 ; + 420 42 +9R B2
.= 5J2B 42 <+ .2 ' E:98 258 .=2M +2 ; + 25 +2 B2K
; 5 530 ! ' C
- ' (! ' < - ' 238 .P 2BBR - & #3 < . B40
358 ?92B
' # ' Q 5*8 *.=2 B/ 8 ' ' 9EB 2B ?92
:5 2 ; <+: 2 <:9B ; 233B2 428 425B428 25 8 .
3 ' Q 5*8 V+&/ ' ' :B5 ?92 <:B32 9
:5J: ' +2 J9 2B B2+ J 29A Q .98 # / ! ' + 9
' j ' Q 5*8 * . *54/ 2 ' ' 2 54B2 25
8 B 5 ' LL 58 +2 + 5J J2 ; B:3 ? 20 4:552B + '
+29 ' 49 8 B 50 :B8?92 + ' B E2 G 8 542 93 4&2+2
H& 9B:B2I 3:932 258 B 542 ' 4 58 +2 '
' ' (" $ 'C9=' !Q
- ' # A 96 8 ' 58 ' :53 ; 8 258 B254280
; 5 8&283: 253 W5 8 B25 54280 ' ')
- # ' LLAE 6 8 ' ' 4 29 ?9 ' <B2548 +2 8: 5 428 5:*
<.28 ' #R ; 25420 + 882 <254B2 6 3:5 4:8 3 ' .= <2
258 B 542 , ' C C ' 3 4 E 82B48 +2 + 29 4288 54
25 8 B 52B 2 25 ?9 3B2 :9 . 5? <:B3 :580 <:9B
952 283B2 428 '258 B 542 +:B8?92 93B2 8&258 *
B 52B 8 53 58 ' .= .95 5 8 58 532BB9<3 :50
' ' "" ' 0
- '? $ ' c5 ' " 23 # -
c ' Q 5*84*M *540 542/ # ' '
58 8 54 < B 8:5 82 J529B
! ' Q 5*84*M *52* ; 5/ 8 ' ; ' 2B ; 2
42 4B: 3 4:4 + .3 :5 4&258 8 52B ' LL 2B ; 2 42
4B: 3 .:939 ; 2B ' 58 8 52 ; 253 428 B25328 .:583 *
394280 :B ; +34 ?9 ' 4:55 3 9 .B4 5. 2B 95 <B E K
+2J2 <:9B 8 ' .B4 5.2
- ' # ' S 6 8 ' 2 B23B 3 + J5 J2B 52 49B2 ?9&95
5 <B48 &258 8 52 ; 253 H+ ' <B 82 42 <:88288 :5 < B
.?94B29BI 8 58 ?9&:5 8: 3 3259 42 B 25 B2 8 *
J5 2B H 9 ' < B2538I ' " C
- ' 3 (! ' < - - #
' Q 5*84BM *54/ ' : ' 2B ; 2 42 4B: 3
4:4 + 2.:55 33B2 < B .32 95 5:9E2 9 325 5. 2B0
25 < B+ 53 49 82 J529B ' LL 5. 25 32B ; 2 42 < + 8
! 233B2 25 <:88288 :5 42 ?92+?92 .=:82
- ' # ' S 6 7 ' :98 52 2988 2M < 8 B 5?:5540
<B 80 5&258 8 54 8:5 =2B 3 J20 ' + E ' 9 < '
8: 3 25 .:53B2 .2+9 ' >2= 5 ?9&3 8&283: 3
258 8 54 9B3 E2 ; 253 4&952 :832*= B4 2 H8:B32 42
E432 ; 253I 4:53 + 93 3B:9E4 8 8 5: ' ' -)
' LLAE 6 8 ' 5 82 J529B 8 3 .25892+ :9 294 +
5&283 3259 258 8 52B 5 ' B2.2 : B 25 ' :+2 5:9E2*
2J92B29BI 8& + 52 +2 8 3 8 3 988 ' 428 5. 258 4B: 38
.3 BB2B J28 = +9 ' 4980 ' "J
- ' (! ' < - ' 23 -
j ' ' Q 5*8 +0 8 * / " ; ' 5. 25 8R5:*
:R 52 4&258 :B ; 2
- ' (! ' 3 ' - ' 4<420 23 + ' 32B ; 5 8:5 4K
@2.3 E2
? ' ' Q 5*8 5*J+ 5*340 3 2/ < B3 '
" ' ' :9 ++4 42 8 5J ' 2 .= 25 E 3 + ' J929+2
2 8 5J+ 5342 ' :9325 B E:8 B J929B8 < B 4& 93B28

.B9 93480 3 + E2B 4 58 +2 8 5J E:8 GB 8 258 5*
J+ 53480 ' D# ' ## ' ' LL$9 ' 283 25 8 5J ' # 3
3B 58<:B32B 4 58 8:5 < + 8 983 5 258 5J+ 5340
?9 ' E 3 25.:B2 95 B2832 42 E 20 9 ' + ' - ' '
' - ! # ' LL ' 2B ; 2 ' &= 83: B2 5 39B2++2 $9 ' 283
; B?94 42 3 .=28 B:9J28 ?9 ' ' 428 < B3 28 B:9J28 '
' @ ' ' : 88:5 49 J25B2 J:G 2 ' #F6 2B ; 2 42 G+ *
8:5 ' 2 4 3 <B28?92 2A.+98 E2 ; 253 49 <4+ : 5 82 44*
2G B 53 +28 + 5.8 <:9B 5:9BB B 828 <23 38
3 ' ! ' Q 5*8 5*J+ 5*32* ; 5/8 ; '
& .3 :5 4&258 5J+ 532B +2B489+3 3 42.2332 .3 :5
! ' Q 5*8 5*J+ 5*34/ E ' ' LL 6 :9 +*
+2B 42 8 5J ' ' G+2889B2 ?9& + B2?93 258 5J+ 53 3:98
828 = G 38 ' :98 B ; 2M .253B2 B: 2 952 <9 88 5.2
E 52 ' 4 5895 8 .B .2 9J9832238:+2552+ 52
+2 49 8 5J 4&##4+452 2 52 25 .28 + 29A 5&25*
8 5J+ 532 & 932+ ' & / ' ' 28 5J 428 8K
8 88 58 283 +2 EB ' 8 .B .2 $9 ' 4: 3 42 E:332 =R ; 25
258 5J+ 532B 932+ 9 ' C #! ' ' 3 LL :9J B
42 8:5 <B:<B2 8 5J ' H B ; I 58 5J+ 53 :3 932+
?9& + 325 3 2 ; GB 884 ' 54B ' + ' B ' N :9J B
49 8 5J 428 93B28 ' 3= + 2 258 5J+ 53 ' +2 < + 8
428B: 8 42 +94 ' LL 6 B 2A3258 :5 + 82 4 3 4&:G*
@238 23 4&4E452$ 2538 ' <B:<:8 428?52+8 4 8 5J 283
E2B84 ' :98 ; 2 B2542M +2 8.2<3B2 ' >2 E:98 .:5K
@9B2 ' 2 5&258 5J+ 532B < 8 .2 ?92 E:98 ; 2 B25K
42MP 328 JB=220 82 J529B :9 8:9 B2M ?92@&25
882 H 9A 88 88 58 42 : ; <42I ' 0 ! ' E
2 J529B 258 5J+ 532B .2332 ++983B2 @:9 ; ; ' " '
? ' ' ' >2<=34 258 5J+ 532 8 ' E .3: B2 < B :5
8 .B .2 ?9 ' 52 U293 43B2 2A:984 ?92 < B 3 ; ' :B4B2
82.B23 42 29 89B+2?92+ + 52 +9 ' ' < 8 <+9425:98
B 25 B2 .:55 33B4 ' K ' +0 " ' +2 52B4<:548
< 8 ?92 ; ' ; 50 =E:8 R29A &258 5J+ 532 ' + '
5 5:8 9528328 4 29A ' D C - ' E B ' 2 5&2 ' '
< 8 ?92 8:5 + B 8 4 8<93 53 3 ' E .3: B2 &25 3 9A
2552 ; 8 258 5J+ 534 + ' J+: B2 " ? B ' 5 ' = '
5&258 5J+ 532M < 8 +2 <B A 42 + ' E .3: B2 9 ' ? '
9 ' ' 28 .B923 :53429A : 8 258 5J+ 534 F < A
' ' # ' 1& # ' ' E " ' + 2830 :<= 20 95
; :583B2 F 20 :2 + <2B 42H ' <:+221 $ 442 25 82 25K
8 5J+ 53 ' +28+: 80 # ' 1 & ' LL 2 <B 5.2 ' 25K
8 5J+ 534 8:5 B4 ' 20 + 8&283 ; :53B4 .B92+ ' LL ' 5K
8 5J+ 532B + ' 32BB2 B2 428 J92BB28 8 5J+ 5328 '
28 .:5?94B 538 258 5J+ 53253 + ' 32BB2 88:58
9 32 ; <8 +2 8: 5 42 B4 :B ; 2B+ ' 32BB2P 9+3 E:58*+
; :5 +80 52 258 5J+ 53:58 <+980
E ; ' ' ' 82 4 3 <988 ' 42 .2 ?9 ' 93 E2B82B G2 9.:9<
42 8 5J ' &2A + 428 B?9 58 ; 4 ; 2 258 5J+ 53 ' 5:8
32BB280 ' U - - ' / ' ' 28 J92BB28 :53 258 5K
J+ 534 & 9B:<2 G 25 +:5J32 ; <80 9 ' ! / ' '
' # ! - ' + ; 8 3 ' <=33:8:<= 2 5&258 5J ; 3 ' 9*
5 E2B8P 8 ' +28 <= +:8:<=28 29B253 428 4 8<9328 253B2
29A0 + ' 3B 5?9 ++ 34 428 5 3 :58 5&25 93 < 8 3B:9*
G+420 "G ' ' 0# ; ' .G ' 3:0 4 58 6 !
F a0 3 ' < ' U " ' ' 6 58 5J+ 532B 428 @29A0 +28
B2 44J454B2B 25 B A2 8 5J+ 532 ' B: 8 : 8 +2 28*
3 ' 93 89B +2 <: 53 4&43B2 258 5J+ 5340
B9 ; ' F ' ! +=29B 9A ; :B3 +8 8 5J9 5 B28 $9 '
< B 42 3B J ?928 :B 38 58 5J+ 53253 828 4:9A
; R834B280 ' ' " ' 1 - ' " ' D ((&7 ' LL%6 5K
8 5J+ 532B + ' 824520 B2<B28253:B 428 ; 29B3B28 89B +2
3=4 3B2 ' 2 E +23 4& 32 52 ' & R2M < 8 <29B @2
E 8 E:98 <2B.2B + ' G24 52 ' :B 53: 52 ' BB4320 *
52 93 < 8 258 5J+ 532B + ' 8 452 ' B4J+2 +2 42K
254 ' ' . / ! - ' ## ') ' ' H 82GR 2I 4E3 '
3:9@:9B8 4&258 5J+ 532B + ' 824520 < B28 ?92 828
3 G+2 9A 42E 253 2 B R2B 8 58 43B2 =:BB G+28
' 5:2= ' .G ' 7 LLN6 &258 5J+ 532B E ' # '
23 .=2B 42 8 5J ' # 8&283 258 5J+ 534 25 39 53 95
+:9<
- ' J 8 ' :93 25 E2BB2M +2 GB 53 H+ ' + ; 2 42
4<42I 258 5J+253230 1& ' ' . ! ' AAA 5 ' LL S96 8
5 G 9A 3B2G92G ' 89B 2BG2 258 5J+ 5342 ' #:520
< ' 7 ' ' 258 5J+ 53253 H32 J5253 42 8 5JI 42*
8 52 4 9 5 ' +2EB 2B0 ' 1 !#! - - ' + ! ! ' E ' V %
' A3+ 6 8 ' + 2 ; ; 5253 25 <B 8:5 3:93 <+ 4 HG+28841
23 258 5J+ 5340 ' " ' 9 ' AAE ' :98 ; & *
4:9G 83280 8 B20 5& ' ' ; 283 2B .2+42 ' ! 2 ? 5*
8 83280 G 98 8 B20 952 ; :9+3 +:5J92 28<42P ! :9+3
; 2 <: 82 2B ; 253 52 2 25.:B ; :83B42 3 49 8 52
98 B 5?: 8 3 532 23 258 5J+ 5342 1& ' " ' ? - '
! ' 7 ' ! J 8 ' : ; 2 ?9 54 :5 ' + EB4 6 :2*
. 8 :5 828 <+98 <B:2G28 < B2580 23 258 5J+ 534 828
; 58 4 58 +2 8 5J 42 828 <B:<B28 ; 8 +
% " ' 2 ?9 ' .3 E2: B 3 53 42 .B 932M 5:9 28 9A
J92BB28 <:<9+ B280 2&283 ?92 .2332 . 5 ++2 42 E9+*
J B2 8& J92BB 3 23 82 J254 B ; 2 F 8&258 5J+ 532B@98*
?9& 9A .:9428 23 428.=?92332B 95 .:B<8 F828 < 2480
? ' && ' G)
' 6 ' < - ' 23 - / - 3 <B:E25?' - - / -) '
' - / - #3 28< J5 ' - - / # - #3 <:B39J '
- - / 7 - #

'Q 5*<4*\8 :*52* ; 5/ ' '
2B ; 2 4 B3 ; + 3 B2 ' cE.493 :5?9 ' :B 2 + ' 82.3 :5
4& 5 532B 2
3 ' > ' Q 5*84*J5 *G50 " ; ' $9 ' <253
43B2 2582 J540 25 < B+ 53 428 <2B8:5528 23 428
.G:828 ' 2 J B?:5 5&283 < 8 2582 J5 G+2 ' 2332 8. 25.2
5&283 < 8 2582 J5 2
- ' ' ! E68 ' 582 J5 G+2 7 ' =7 (
- ' (! ' < - / - #3 <B:E25? ' - - & 3) '
/ -
3 ! ' ' Q 5*84*J5 50 J5 5*3&+
" ; ' $9 ' 2582 J52 ' :3B2 ; 5 2 2582 J5 532 23 <2*
4 5328?92 283 3:9@:9B8 4& <<B254B2 9A 25 538 .2 '
?9& +8 <<B254B 253 G2 9.:9< ; 29A 4&29A* ; 45@28
' ' :988 ' * ' 5 ' LL 2 .:B<8 2582 J5 530* 95 *
E2B8 34 ' LL J+G2 2582 J5 5320 + ' B495 :5 428 <B2K
; 2B8 8329B8 42 JG82 F ?9 ' >4898 ' 4 3 ' ++2M
2582 J52M 3:9328 +28 5 3 :58 '
' Q 5*84*J5&/ ' ' # 6 ! 3 ' 20 54 .2
<:9B B2 B2.:55 33B2 ?92+?92 .=:82 ' :552B 42
G:55280 42 98828 2582 J528 ' 2834 ; : 58 44< 8 253
?9& 93:9B 42 .28 B R:58 28 5 ; 9A +480 G:9B*
4:55 5380 95<29+:5J80 2 .:9+29B :B33 5542
32+8 ?92 428 G2 ++280 E 253+:5J32 ; <8 < B9P ; 8
?9: ^ 4 58 +28 B2+:58 28 2582 J528 43 253 < *
B2 ++280 ' ' ' &2 ; <B2 532 4:533:98
828 3B 38 <:B3253 + ' 4 E 52 2582 J520 > ' > '
D ' N ' S G:5528 2582 J5280 F G:5 3 3B20 E2. '
8 B2340 25 3:932 J B 53 2 ' <98 4328 . : ; ; 2 + 93
<:9B 5&43B2 <2B89 442 ?9&F G:5528 2582 J5280 8 E
7 ' + 5&R ' < 8 3B < 42 8 B234 42 82 ; 233B2 89B +2
=452 ?9&F G:5528 2582 J5280 ' + ' ' " '
! - - ' 2 52 E:9+ 3 B 25 4<B:9E2B 42 ; :9B
?9&F G:5528 2582 J5280 6 6 ' H# ' ! ' &25
E:9+ 53 3 E:B 82B 9.95 ?9&F G:5528 2582 J5280 :
' H ' D ' ' A ' $9 ' 52 8&25 + 882 ; <:82B
?9&F G:5528 2582 J5280 ' ' ' K ' ' >2 ; 2
89 8 2 ; < B4 42 E 5J3 < B28 42 ; 9+238 ?92 @2 52
B254B ' ?9&F G:5528 2582 J5280 . ' ' ' + '
V 7 ' ' S 32++28 2582 J528 ?920 25 <B29E2 ?92 ' >& '
< R4 +2 B2+ ?9 B2 F .2 @2952 G: ; ; 20 F 32++28 25K
82 J528 ?9& + 4: 3 E: B .392++2 ; 253 89B +9 ' .253
E 5J3 4.98 4&:B ?92 @2 +9 ' . : ; <3480 ' H7 '
"YC I # ' V ' S 32++28 2582 J528 ?92 @& ' 25.:B2
95 ; :9.=: B F 2++20 ?9&2++2 ' :9G+ 4 .=2M ; : 6 :
E I C # - - ' V66 < B3 2 ' LL ' 5. 2552 ; 253 '
582 J52 :9 E:9B < 422 443 .G42 42 + ' < B9B2
4&952 4 ; 2 23 4:5542 F 95 .=2E + 2B .: ; G 33 53
4 58 95 3:9B5: ' LL 6 5. 25 32B ; 2 42 ; 59 .K
39B2 ' 52 .2B3 <2 ; 289B2 4 ' 4B <0 ?9 ' B2E25 3
F 3 : 8 9528 ' 52 < 422 42 ?9 5M2 2582 J5280 2&283*
F*4 B2 42 ?9 B 532*. 5? 9528 ' LL 46 G+2 9 J9*
B 3 ' ; 8 9*428898 4&952 ; 8:5 <:9B 54 ?92B +2
. : ; ; 2B.2 :5 ' + ' <B: 288 :5 49 <B:<B 43 B2 ' &2582 *
J52 3 + ' .= + 54 820 ' ' ' V8 ' 2
8:5J2M < 8 ; 4 ; 2 F 4 :B ; 2B +28 2582 J528 4&958
E ++20 + ' O ' ++2 9B ' G 25 42 + ' <2 52 B ?9 332B
95 =432+ <:9B B2<B254B2 8:5 2582 J52 42 + ' 3. B420
' #!7 ' " ' 0& # ! - ' 8. C ' H 2 <:B3B 349
B: ' 4&(E23:3I &283 2582 J52 4&95 . G B23 ; 29A
4 58 + ' <B:E 5.2 # ' ,5 ! ' LL :98 8: ; ; 28
3:98 429A +:J48 F + ' ; 4 ; 2 2582 J520 .&283*F*4 B2
5:98 8: ; ; 284 58 +2 ; 4 ; 2 2 ; G BB 80 :9 ; +G29B0
:9 <2B32 ' / ' ' ' +:J4 F 2582 J52 42 + ' +9520 + ' . : 9*
2G4 F 2582 J52 42 + ' G2++2 43: +20 82 4 3 42 ?92+K
?9&95 ?9 5& R 53 <: 53 42 +:J 80 R 53 434 ; 8
=:B8 49 8 250 ' . :9.=4 42G:B8 ' LL J ' 5]52 < 882
<: 53 4 58 +2 ; :542 <:9B 82 .:55 33B2 25 E2B80
' :5 5& ' ; 8 &2582 J52 42 <:4320 5 ' <:9B 43B2 = K
G +2 25 ; 3=4 ; 3 ?9280 8 ' :5 5& ' ; 8 .2 2 42
; 3=4 ; 3 .25P ; 8 +28 EB 8 =:554328 J258 52
E?9+2 3 <: 53 4&2982 J520 ' 2584280 < B30
B3 ' I ' :+ 2 42 ; 233B2 2582 J52 42 <= +:8:<G 20
+0 # $ ' 2 ' 2 .=43 ; 253 3: ; G ' 89B 828 :B2 ++280
$9 3:93 F ; :9< ' 8& ++:5J ' 53 F ; 2BE2 ++28 ' 8
+29B +:5J929B 23 +29B ; :G G34 2BE 53 4&2582 J52 F
8 ' 39 340 ' ' ? / ' - ' R ' LL &283 952 25K
82 J52 F G 4B20 82 4 3 4&95 <:3B 3 4&95 3 G+2 9 ; +
<2 53 ' ! ' 9B 54 ' ; 8 G2 9.:9< 42 5:9E2 2+28 59 5K
.28 F 8:5 2582 J52 F G 4B20 E ' E ' + ' ,& !
7 > 5E 2B VCCV ' LL 6 B <2 9 8 J52 42 B ++ 2 ; 2534 58
+28 B ; 428 B: ; 528 ' 28 2582 J528 B: ; 528 43 253
428 J+28 ' :98 ; B.=2B2M F :B52 F . : ; ; 9528 25K
82 J5280 ' @ # !# ' U ' $92 .29A ?9 ' :53 382B*
; 253 ; B.=253 8:98 ; 28 2582 J5280 C ' <
E 50 V ' ' B 2A3258 :50 3:932 28<422 4&43254 B4 '
' J92BB2 283 <B28?92 988 ' 9. 2552 ?92 +2 J25B
=9 ; 8 50 23 +28 2582 J528 8:530 988 ' 5. 25528 ?92
+ ' J92BB20 : ' 0 # ' 1 < -5# ' 3 ' E
< ' 7F ' ' E293 ?9& 9 GB9 3 428 .:B8 9 8:5 " ' '
.R ; G +20 ' 44B:9+2 F 583 53 8:5 2582 J59 B:R +20
' 0 # " 7 ' ' B254* + + ' 9 390 283* +
394 ' 3:58 +28 .:B<8 82 4 8<2B8253 :9 82 B 5J253 8:98

+28 2582 J528 42 &2552 ; + 6 'K ' C ' '
" // J' ! B.=2B0 U ; = 33B2 8:98 388 2582 J528 42
?92 ?9& 50 82 B 5J2B 8:98 825 93:B 34' 4'32 '; +
3B28 8449 38 ; B.=253 8:98 328 2582 J528 9 ' ! '
- '50 N' N' 2B ; 8 42 ; B 52' 582 J52 42 <:9<20
+2 < E + :5 ?9 '82 ; 23 89B@ '<:9<2 LL 92 4&2582 +
J520 82 4 3 ?92+J92 : 8 49 <23 3 ; 43 ?9 ' <:B32+&25+
82 J52 LLC ' 58 & 5. 2552 5 532B 2 B 5 820 + '
.= BJ2 42 <:B32*4B <2 9' :5 +8 :G3 53 952 2582 K
J52' ' '.:B:< J5 2 2: ; ; 5432 < B.2+9 '?9 ' E 3
+ '.= BJ2 4&2582 J52' LL@ ' ' 2+9 '?9 ' <:B3 3 &25+
82 J52' 5 2582 J52 9A J B428 ' L 5B' 5 ; B 520
95 2582 J52 42 E 882 90 : +. 2B 4:83 +2 JB 42 3 3
+2 ; : 58 4+2E4 Q42<9 8 <29 4& 55428 :5 R' '89G83 +
39 " +2 3 3B2 42 + 29325 53 42 B4J 32/ ' 8 5J9+ B 34
49 3 3 23 +2 .:9B J2 ?92 52325 53 E 3 34 ; J540
+2 B253 B2 2582 J52 <B'8 +2 .: ; G 30 ZPB ' '
(5H(!."/ ' <' Y ' 4 58 M 'Bb B:E2BG2'
'G.;' E '$ 52 93 < 8 4&2582 J520 .&283**4 B2 +5&283
=2530 G :5 ' E 5 < 8 4&2582 J520 .&283**4 B2 +5&283
< 8 54.288 B2 42 B2 G2 9.:9< 4&2+ :B38 <:9B
; 233B2 25 E :J92 .2 ?9 '283 G:5
' O I' (' &2582 J52 H42+ = 2 5& '42E:58
G+ 2B0 ' < ' 2 B2 4 B+& 5@:9 '?9 ' &2582 +
J52 3252 30 G' ..9A' = B+28 H.B 2@ ; :53@: 2 &25+
82 J52 B25: ; G20 3G' ..3A' LLA 6 8' 5 ; 2 53 283:B
9 E2 '828 2582 J528 # ' <' 3 ' > ; +8 25 5:8
+ J<8 H5:98I 52 <:B3 88 :58 58 J520 5' AAA'
2839' H +I' :3 95 G+ 93 6 582 J52 4&:B B: 80 3G'
AAA9 ' +A5 6 8J +G8 ; :'G 253:83 ' 2BB20 23 4 8328
59 2 832+ 5 42 < B ; 2 '?92 < B 59 2 2582J52 ?92
@2 + ' 53 5J2 H ; 542I 52 <:B 59 2 +233B20 ?92 + 52
B25J2 HB2542I +2 . 83 2+") ' '9 + 'AA 3 ' 8 0: 5
E: 3 ?9&2+2 25 4 2 EB 28 25825J528 0 :5 25 4: 3
<+98 3:83 : B2 ?92 952 93B20 - 'N= ' ' 9
+ '4 B 8 ?92 + 32 .B: 20 '32+28 2582 J528 ?92 39 B 8
: : ; G 3B2 ' &2 ; <2B29B 42 2B82 ' 3:93 3B 8 <258
=: ; 280 8 5M <+980 42 3 'J2530 @: #E' 83' '32 ; 542
?92 .2 9 + =228 ; 28 ?92 39 3B:E 8 + =:38 +28 G28328
J B4 530 23 .2+28 58 J528?92 + 324 83?92 +E25+
B: 3 '3:'?9 53 + E:+4B: 30 > 2B+350 6" 'E2B8: 'LL $E6
8' 328* 9 '?92 E2B8 +9 ' $2I E:98 25E: 2 <B+2B 'B3G8
G:5528 2582 J528 E:98 I 9BB2M E 5: 2B0 928.+'
" 7C ' 5 :9+3B2 5:98 < \ 83 23 E:9+:580 ?92 3:58
+284 3 >9R8 23 >9RE28 42 ; : B 58 25 5:83B2 4 3
B:R 9 ; 2 <:B3253 +29B 2582 J52 .:9839 ; 42 9
428898 42 + ' .2 539B2 23 25 29 <+98 << B '30 23
82B ' + 4 .32 2582 J52 49 + BJ2 49 822+ 42 5:83B2
= 832+2342 B 8 23 ?9 '82B '3B:9EG8258 2582 J520
+ < 2B ' E 53 8:3M < B 8 8 4& ; 25420 '
-" ' <' W ' '283 <2B ; 8 9A + + 28 42 @: 2 42
+ 'E 42 42 =:9+:982 42 <:B32B 23 E283 B +2++28 B:G28
23 .= <<2B:58 .: ; ; 2 2+28 E:9+4B:530 23 253:9B &95
42 +29B8 GB 8 952 258 J52 :9 4 32B25.2 4&95 @ B2+
42B :9 + 8 2B2 42 4B < 4& 9+3B2 .:9+29B ?92 + 'B:G20
'3G' :9B 8 A 8 5.39B28 23 4 A 9+528 42 B9G 53
G+ 5.0 <:9B B2 2582 J528 28 + EB280 50 3G' LLAE6 8
5 .= 8.95 4&29+A H428 3B: 8 :B4B28I 8:5 4B: 3 283 3
; 53 25J=2 B &2A.242B 283 ; :583B2 23 4B: .32
258 J52 2 < 8 E: B <:9B +2 <29<+2 23 & J+ 820
' 8.#'@!7 #'"7' 7 ' & 888M 4& 93B28 5:G+28
G: ; ; 28 <:9BB: 3*:5 4 B20 428?929+A0 ?9 54 @29528
83: 2530 +28 2582 J528 42 +29B8 25 5.28 42 ; :5+
3B: 253 2<82 J528 42 +29B8 .:54 3:58" ' , + ' '
S >2G 5 ! B3 5 :B 2EB20 42 ; 29B 53 ' :9+:5J520
<:9B 952 2582 J52 :5 R ; J2 4&:B .32 25 + 'B2E2K
B25.2 42 :83B2 ; 2 42 :9+:5J520 ' '
7B ' M 0 +98 29B8 .:9<823253B2+28 93B28 95J
25 + 'J:BJ2 4:53+&2582 J52 +9 '283 42 ; 29BG2 3:932 8 '
E 20 ??' 0" ' 3 <:9B3:9328 2582 J528 56R 283 ; 2+
35: B2 4&29+A H428 B 5? 8 25 . +2I ?92 <:9B +28
82<9+39B28 42 +29B8 <B '2.28829B80 5' E 0 ' 28
9+88280 ?9 ' + <<:B32B253 3:98 +29B8 2582 J528 5'
E ; 0 +!' ' 5& ' < 8 283N 829+ 253 .=G 42 :2 ; 3 H+ '
@ +:98 2I P ; '3:932 : 80 <:9B.2 ?9& + 93 :93B2 3&25+
82 J520 @2 52 ; 2 8 9B: 8 < 882B 8 58 B2 8 E: B
+2 JB . 29A3:9B?9&:5 +9 ' 30 1 'H ' : : : .--'
Q' O I 8' 2 G:9BJ80 .= 832 9+A0 ; 5: B80 E >280
.G ; < J5280 4 5& 3 H4 3G 828 J9R4:58 23 2582 K
J5280 >' -"' 0 N' 'R 25 ' 9.958?9 0 ' 9+U
T28 2582 J5280 98 B<253+2 5: ; ' 4& = 83:B 2580 6
#" 'O ' 7' + '3B 4253 &2582 '52 42 2<39520
' 9A ' M' 28 8:9+4 B8 ?9 ' 8:53 8<9G8 952
; 28 ; 2 2582 J52 8& <<2+253 ; 5 <9+ B280 5'.! '
V '+28' 8.2 9A 42 E2BJ280 2582 J528 49 8:9B2+
3 5 ; J 83B +0 0,1 *' N" ' 'E ++24& B.=: ; 252
E: 3 B2<9 429A 9 82 J528 H.: ; < J5 28I 42 J258 42
< 24 <:9B + 'J B42B0 5 '0" ! ' 7' 5 <:B3 &2582 K
J52 ?9 '283: 3 '+ 'J B 249 G:9BJ 53 2BB209:
%'M ' + / "/'0#."-/% 40((- 6" ! '"!("+"/% ' !"/(+@
7/ "#!*04-%H/"S!#" ' -/' 0 M 'S" +!0(("!'"0.*-%
."!#*//""4*!"%'*-((*&(+ ' #*!<0-/" #"($-7!'"(
#!"/("-7/"(,!" */ 4*'%*-%0!:' ;*//"%('&"(,!* "(

283:R253 8' G 25 + G:9B428 23 +29B8 28 ; 9A 8 'G 25
< B :5498 89B +2 .9 EB20 ?9& + 5&R E: 3 59++2 <2 5+
39B2 8' <+ 8 5320 $' DaF' = .952 2582 J52
.:9839 ; 2B2 ; 253 428 958 23 428 93B28 283: 3 .+
.: ; < J5G2 42 .253 :9 8 A E 5J3 =: ; ; 280 !
- ' - - (' YI' + E' <' B' 2 82 J529B
#:B .2 :50 .=2 ' 428 2582 J528 5: B28 H+2< G 5+
428 5: B28I0 5:' ' >G ; ' + E' 50 6 F"0 4 58
' ' B:E25?' - /- ' - - ' -& 3
. 3 +' - / - 3 5.'28< J5' - K 3 3 +' - / 7 3
49 + 3 5 - / - ' <+9B 2+ 5293B2 42 - / - ' 5+
8 J520 42 350 23 / -7 '8 J52' 58 +28 5.258
32A328! -'3B:9E2 < B : 8 - / - ' ; 8.9+ 50 ?9 'E 253
+:B8 4 B2.32 ; 25349 5293B2 - / -
0 'Q 5*8G*J5G0 J5G2/0 # ' '
'+6 9 ' B2<: 3 &2582 J52 ; 253' '@2952882 2582 +
J5G2 4 58 +28 .:+GJ28 'LL 6 9 '283 4:55G 25 2582 +
J52 ; 253' 28 ; 3=G ; 3 ?9282582 J5G28 E2.89..G8
< B .2 <B: 28829B' LL F6 54 ?9G' =2 ; 5' ; + 25*
! 'Q 5*8G*J52* ; 5/08 ' ; 'L 6 & .+
3 :54&2582 J52B' '. BB GB2 42 &2582 J52 ; 253' 2
<B: 28829B '+ '<B 3 ?92 42 &2582 J52 ; 253 'LL ' 5+
82 J52 ; 253 <9G+ .0 2582 J52 ; 253 ?92 4:552 & +
3 3+ 3 82 4 E 82 25 <B ; B20 82.:54 B2 23 89<G+
B 29B' LL 582 J52 ; 253 <B ; B20 .2 9' ?9' 4:552
+28 <B2 ; 2B8 G+G ; 2538 428 .:55 88 5.280 +2.39B20
G.B 39B2 23 B 3G ; G3 ?92' LL 582 J52 ; 253 82.:5K
4 B20 .2 9' ?9' 2 ; GB 882 &G3942 428 + 5J928 5+
2 25528 0 42 + 'B=G3:B ?92 23 +28 <B2 ; 2B8 G+G ; 2538
428 8.25.28 ; 3=GB5 3 ?928 23 <=R8 ?928 23 42 + '
<= +:8:<= 2' '82 4:552 4 58 +28 +R.G28 23 +28 .:+K
+GJ280 58' ?92 4 58 +28 <23 38 82 ; 5 B28' L' 5+
82 J52 ; 253 89<GB 29B0 .2 9' ?9' 283 4283 5G '25+
82 J52B 4 58 3:932 +29B G325492 +28 +233B280 +28
+ 5J928 0 +28 8.25.28 23 + ' <= +:8:<= 2' + 24:552
4 58 +28 9+3G80 9 :+GJ2 42 B 5.2 23 4 58 +28
JB 548 8G ; 5 B28' LL ' 2 4 3 428 4 GB25328 ; G+
3G:428 4&2582 J52 ; 253 'LI 582 J52 ; 253 54 E 492+0
.G+33 ' 4 58 +2?92+ +2 <B: 28829B 8&:..9<2 25 < B3 .9+
+ 28 23 89..288 E2 ; 253 42 .= .95 428 G+GE28 4&952
.+ 882' ' 582 J5253253 ; 9392+0 .2 9' 4 58 +2?92+
:5 2 ; <+: 2 +28 G+GE28 +28 <+98 E 5.G8 8:98 +2 3 3B2
42 ; :5 329B80 <:9B BG<G32B 9A 93B28 .2 ?9&29A+
; G ; 28 E 255253 4& <<BG54B2 ' LL 582 J52 ; 253 +
; 9+3 5G0 .2 9' 4 58 +2?92+ +2 <B: 28829B 8& 4B2882
' + ' ; 882 428 G+GE28 4:' + ' .+ 882 9' 4&952 89G4 K
E 8 :50 23 +29B 3 B2 '3:98 25 ; G ; 2 32 ; <8 +28
; G ; 28 2A B. 28' @+ 582 J52 ; 253 <B: 288 :552+0
.2 9' 4 G8 +2?92+ :5 <LUB2 4 9A 25 538 .2 ?9 '283
5G.288 B2 ' + ' <B: 288 :5 ?9& +8 4: E253 89 EB2 95
@:9B23<B 5. < +2 ; 253 9A <B: 288 :58 .: ; B52B. +28
23 54983B 2+28 +"6 582 '2 ; 253 + GB20 2582 J 2+
; 253 ?92 4:55253 +28 < B3 .9 2B80 < B <<:83 :5 '
&2582 J52 ; 253 <9G+ .' :942+& 3 3' LL 582 J52 ; 253
:G+ J 3: B20 4 8<:8 3 :5 GJ +2 25 E2B39 42 + ?92++2
3:98 +28 <GB28 8253 :G+ JG8 4&25E:R2 '+29B8 25 538 '
&G.:+2' %&' . BB GB2 42 &2582 J52 ; 2530 +2 .:B<8
2582 J5 53' '283 253BG 4 58 &2582 J52 ; 253' '82
4283 52 ' &2582 J52 ; 253 'LLN & .3 :33 4& 583B9 B225
JG5G54 ' &2582 J52 ; 253 4GE2+:<<2+ ' ; :B + 3G 4&95
<29<+2' ' 5 95 8258 <+98 B283B2 53 23 8<G. +' &25+
82 J52 ; 253 95 E2B8 3 B2' &2582 J52 ; 253 428 @G+
89 328' C6 BG.2<32?9 '2582 J52 ' B2 :9 'GE 32B'
& B3 42+ 'J9 BB2 ' ; : 58 4&2582 J52 ; 2538 ?92 39
5& 842 E2B3980 ' ; ' 3 8 32 '+28 4 29A < B
E:3B2 ; 2542 ; 2530 3 8 .=2M* ; ' G:5 JBG 42 '
2582 J52 ; 2530 '& 'E0 ' 5 3BG52 54 +
J52 ; 253 B25E2B8G 23 ; B .9+2982 ; 2: BG3 @ : + '
+28 25 :2 J52 ; 2538 ?92 29 4:552 9A B: 8 58'
3+ + B 9 ; :542 +2 5G 53 42 828 < : ; <28 23
42 828 JB 5429B80 '< ?& ' 28 2582 +
J52 ; 25+8 ?92 29 4: :5 3 '8:5 <29<+20 5' = '
YB' 3 <B 3 ?9:58 .23 2582 J52 ; 2530 '4 58
' F6 & ,' <+9B' . 25 32B ; 2 42 <B 3 ?920 D+ K
3B28 23 2582 J52 ; 25380 +28 < G.28 82BE 53 '<B: 9E2B
95 4B: 30 :52 <:88288 :50 952 ?9 + 3G
- '# 'S 96 8 'N2' 2B ; G < B ; G8 2582 J52+
; 25M+28 .:+:5528 42 290 0 , ' FF' BE: '
G 25 ?92 E:98 28.B EG8 5 + EB2 49 .92B E:+253 2B8
:58 ; 22 2582 J52 ; 258 253 2B80 ' .! ' YA Y'
2 < <2 B2J: B20 $ '< B +233B28 + 8 +9: 3 3 ; 9+3
4&28.B M + '25E: : 30 ' ; 9+3 E: 3 4&2582 J52 ; 2530
:B ?9&2+2 E28?9 83 .G 832 ; 2530 ?, ' ' \WE'
:B8 <<2+ ' ; 258 = + <<2 8:5 +M0 23 ".: ; ; 548
'J B42B 988' .: ; ; 2 < ' 3283 ; 253 3:9M +28 2582 6
J:2 ; 258 ?92 + ; ' +288 0 +:93E' Y ' 3 .2 <B 5.2
23 3:93 8:5 <29<+2 B2?9B253 +29B 2982 J52 ; 258 428
<BG4 . 329B8I 8' 42G:55 B2 ; 2530 ?92 + 9B253 3:9M
G <+ M+G80 5' N"0 L@AE6 8' &2 ; <2B29B B2E2839 42
828 = G 38 23 2582 J52 ; 2538 H 58 J528@ ; <2B 9A0
' '#' ! '3' 50 ' 0 4 58 ' 3 25

.2 8 530 3 258 G 25 &2582 J52 ; 253 49 8 J2 492
4& 3=2528 ?9' ?3 <<2+G 2B .+28 ?9 '4 8: 30 .: ; ; 2
B <<:B32>983 5 Z :9.3? < B3' E0.= 2 'LLAE 6 8' +
398 82 B << '3:93 8:9G4 5 42 .2 ; 28 ; 2 J+ E20
=:5329A0 ' ; :5 4E 80 4& E: B 29 G28: 5 4&95 8'
.=2B 23 <B2. 29A 2582 J52 ; 253 H+2 .:9< 4:53 8'
2 ; ; 2 8&G3 3 B <<G2I0 6 ' 50
'3 ' <- / - #3 <B:E25?' - / - - '25'
-& - ' / - -3 28< J5' - - - ! 3
3 +' - / - - !
'Q 5*8G*J5G/0 E' 'LL 6 54 ?92B0 B2
.::5 33B2' 582 J52B +28 4G3:9B8 4 95 G: 8' 582 K
J52B +2 .=2 ; 5 +2 <+98 .:9B3 '95 E:R J29B GJ BG'
3 E:98 ; & E2M 9 .B ; 2 2582 J:G +2 .=2 ; 50 '
1 - - ' E0 ' $9' 82 + 882 4&95 B:' <293 ' + 882B
4&95 <GB2+ # ++2 2A2 ; <+28 8 5J+ 538 5:98 <29E253
&258 . J52B0 -' ! '7 '&' :98 E:98 ; 2332M :B3
; + 9 .=2 ; 5 42 BGJ52B' -' 2 J529B0 8'@2 ; &GJ B20
:5 <293 ; 2 &2582 J52B0 8' 3G' + 0 " ' :9B 8:B3 B
428 3:9B ; 2538 4:53 ; :5 B52 283 + '<B: 20 + 2830
E:98 +2 8 E2M0 952 <+98 5:G+2 E: 2 '>2 ; 2 89 8 E90
; 4 ; 20 2582 J52B .2 .=2 ; 5 3< B <+98 4&95 =GB:8
23 < B <+98 4&95 2 ; 50 '. "# - 'E0 M' 582 +
J52M* ; : 0 =GG 580 +2 < + 8 42 E:8 <B 5.280 6 ' '
0 '1<" #! ' E0 'LL F6 B2 8 E: B0 4G ; :5+
3B2B0 25 < B+ 53 4&95 B30 4&952 8. 25.20 25 4:552B
428 +22:58' 582 J52B +2 + 3 50 +2 4288 50 028.B ; 2'
B ; '+28 4 E2B828 8. 25.28 ?9& +8 H+28 <24 J:J928I
82E 5325342+29B 2582 J52B H 9A 25 538I0 +8 82 J B+
4253 G 25 42 .=:38 B .2++:8 ?9' +29B 82B 253 BG+
B 3 G+2 ; 253 93 +280 < B.2 ?92.2 82B 253 428 8. 25K
.28 42 .=:828 23 ?9& +8 5&R BG988 B 253 < 80 >' '
:988' '5' LL G8:+9 ; 253' 25 5&G3:9 2 <+98 3'
4:.3B 52 ?92 42 ; 233B2 '3:9328 328 .G:828 952 B:G2
42 4:.329B +28 J258 ?9 ' E29+253 3:9@:9B8 2582 J52B
2 ; <G2=253 G2 9.:9< 4&8<<B254B20 6 < ' '
< # '" ' ! ' < B3' 'LL 6 B2 .:55 3 2 .: ; ; 2
< B 9<2 8:B38 42 +2?:5' 92+?928 5 ; 9A 5:98 :53
2582 J5G 'G 3 B 428 ; 8:58 $92 8 9B 3 2582 J52B
9A <B 5.28 2 JB 54 4G ; :5 ?9 '+28 583B9 30 :53 3'
8 J2882 25 5:8 <B:E 5.28 = ?92 @:9B 5&G< 542 +2
B9 3A ! #' ++0 ' 583B9 82M+2 4&2A2 ; <+20 23 E:98
B288:9E252M 9& + 93 B2 '828 R29A .2 ?92 E:98
2582 J52M0 '1 " ' ' ' & ; :9B JG5GB29A 42 + '
EGB 3G 3 3BG8*8:9E253 <2B4B2 +28 .= B28 : + :5
52 4: 3 2582 J52B ?92 L' EGB 3G0 6 '. (& #(& '
0 7' :50 ?9: '?92 & J5:B 5.2 2582 J52 89B . '
<: 530 '< 'S ' ! G.G 530 .&283G 25 'E:98
4&:82B 58' 5: ; 2B 5 29 ?92 :3B2 G:9.=2 25+
82 J52 ' G+ 8<=G ; 2B0 3+93+' 390 ' +2834& 9+
3B28 E2B398 ?92 @2 E29 ' 3&2582 J52B0 9 '? '5'
A' 582 J52M + 'B 8:50 + '@983 .2 23 +28 ; :29B80 "'
& ' 0 N' 2 9A M +2 582 J52 '3:93 8:9 +B B
.: ; ; 2 '3:93 = 8 B42B0 - ' . -#' .= 'A' & +8 82
82BE B253 49 ; 258:5J2 <:9B 2582 J52B 428 EGB +
3G80* +8 G3 253 54 J528 42 +28 2582 J52B+ +8
5&G3 253 < 8 <= +:8:<=280 +8 G3 253 3:93 9 <+98
42 3BG8* <B942538 ; 25329 0 +: ' '&A' O '
& ' ' 5 8 J2 8 ; <+20 8 58 8320 8 58 ; <:839B2
H :5 9. 98I0 ?9 '2582 J5 3 9A =: ; ; 28 E EB2=29+
B29A0 8 A .2538 58 B 53 5:3B2 GB2 E5+J B20 4 58
95 32 ; <8 : '3:93+2 8G<3253B := J5:B 3+&98 J2 428
+233B280 - ' 1' :93 +2 ; :542 E293 2582 J52B 'G 25
B20 23 <2B8:552 52 E293 <<B254B20 '6' '
. '9'B:3 " 'O! !/ - ' 28 ; :29B8 ?9&25 .2 4G82R3
2582 J52 + '5 39B20 :. 80 A *1 ' B0 .'LL" ' <+
<B254B2 '8 E: B0 583B9 B20 E2.'95 5: ; '42 <2B8:552
<:9B .: ; <G ; 253 4 B2.3' 582 J52B + '@2952882'
H & 5JB 3I 52 3 254B '. ; <325 '42 .29A?9 ' &.53 ; 8
9 ; :5420 5 '42 29A 42 ?9 ' + ' ; 5JG+2 < 50 5'
42 .29A?5 +&:53 2582 J5G0 ' ',# " - '
" '@C = 7 ' 0 "C' 52 2 ; ; 2 ?9 '<293 B2 428
93284 58 8 '+ 5J920 B' 2+2 5 0R 'G3G 2582 '5G20
E:BB' + A 'VF%' 58 & J+ 82 5 88 5320 :5 2582 K
J5 3 +28 . 3G2=9 ; 25280 2&283+ *4 B2 .2 A ?9' <BG+
3254 253 9 G <+ ; 20 E 5 '?92 42 +2 +29B .:5 GB2B0
) ' 1! #' " ^' #' >& '4G@ '4 3 ?92 .2 JB 54
29 +G8 2582 J=2 H+28 B: 8I 23 25 +29B 4:55 53 23 25
+29B G3 53 +2 <:9E: B0 ' . -'"?-/ ## ' +8
5:98 :53 2582 J5G8 +29B J5:B 5.2 ; G ; 20 - '
@ # 'J, +' ++2M0 4 3* +0 =58 J52M 3:9328 +28 5 K
3 :580 +28 G <3 8 53 9 5: ; '49 GB20 49 +8 G345
53* 8<B 30 23 +29B <<B25 53 '5' ' 0 N '
H>G898* GB 83I & 2582 J5G2 H& J+ 82I E2.'3 53 4'
8: 50)7 ' 50 6 C' '< G89 'GB 83I 58< B2 428 <B:+
<=G328 <:9B 5:98 2582 J52B0 '? ' 5 - '"'
'1' :98 E:58 2582 J5G .28 GB E28 589+ B280
' # & 'E0 ' 28 5.258 :8. 580?9 '2582 +
J5GB253 +28 2 ; 580 8 E 253 ?92+?92 .=:82 42 <+98
?92 +28 <29<+28 : . 4253 9A0 5' C! 7# '?5' #! '
2 4:J ; 2 < B ?9' 5:98 8: ; ; 28 2582 J5G8 ?92 5'
<B GB28 428 ; :B32+8 = 3253 + '4G+ EB 5:2 428 ; 8 30
3 ; 'H ' P E0 "8' LL 5 .23 2 ; <+:

\ G

2582 J52B' 52' <B254'5' . : ; <+ ; 253' 54 B2.3' 5 ' E2BG2' <B 8' +9 ' LL%" &2582 J52B0' 2 ' #* ' c2' B2' +2' : 5' \' : * ; ; 2' 5' ?92 ' 9A' 4 <258' 4& B3B9 ' J2' @2' B &2582 J5 882 0' 3 7 9 ' @ ' A5' :98' H<B 3B21' 25* 82 J5 2M' +28' 93B28' 23' E : 98' 52' E : 58' 2582 J5 2M < 8' E : 98* ; ; 20' ! ' ?5 ' 7 / ' 7 - 5 ' LL 3B2' 2582 J5 0' 4 ; : 53B ' 28' ; 3= ; 3 ?928' 8&2582 J5253' 4 58' .23 3 G+ 882 ; 253

-' (' 0' 9 ' 582 J58B0' .&283' 4 : 552B' &2582 J52 ; 253' 583B9 B20' .&283' 4 : 552B+& 5* 83B9.3 : 5' ' R' ' 4 : 52' 4 58' 2582 J52B' ?92+?92' .= : 82' ?9 ' B2J B42' ; : 58' +2' B 89+3 3' 23' 4 E 5+ J2' +28' ; : R258' : &283' +2' . : 53B B2' 4 58' 583B9 B2' ' 95' 9K 3B2' < : 53' 42' E920' 583B9 B2' 82' 4 3' <+98' 2A.+98 E2 ; 253' 42' &2582 J52 ; 253 532+2.392+0' 23' 2582 J52B' 42' &25* 82 J52 ; 253' ; : B +' ' ++2M' 23' 2582 J52M' 3 : 9328' +28' 5 3 : 58' ; 8' : 5' 4 B ' \' 95' <B : 28829B' 583B9 82M ; : 5' +8' 5 50' 25' <+98 29B8' . 80' .28' 429A' ; : 38' <B255253' 952' 8 J5 . 3 : 5' 5 + : J92' 23' 82' . : 5 : 5* 4 : 53

-' # ' S 6 8 ' &283' ?9 +' H?9 ' +21' 42 ; 5420 52' &28* 3923' 2582 J52B' H +' 5&283' G28 : 5' ?9& : 5' +2' +9 ' ; : 53B2@0' 1& ' " ' . ! ' E5 ' LLA 6' 8 ' 582 J52M' ; : ' 95' = : ; 2' 42' G2B5 J2' HE ++ 5.210' . ! - ' ' 3' 42' G 3 +2' = B* 4 8' 23' 2582 J5 80' ' < ' N% ' >2' E : 98' 2582J52B ' H 5* 4 ?92B 0' 95' @9+82' H@9J2 ; 2530' 89<<+ .21' <28 530' ' < ' V77 ' 852+8' H<B : ; <31' < : B' 2582 J5 2B0' 23' 3 B4 8' H3 B4 1' < : B' : 3B0' ' < ' N% ' +?9 ' +9 ' : 53' 25* 8 J5 ' 23' <B 8' S28+ : J52B' .298' 42' . ' 25E B : 50' 6 ' @# ' K ! -(# ! ' < ' 3 " ' #2B9< : 8' 8 : 53 ; : 9+3' 8 J200+29B' J253' G 25' 2582 J5 20' @ B ' AA' 2 80' 3' + ' 8 5M' = : ; 80' ; +' 28328' 2582 J5 2M' 0' 98' 5&28328' ; 2' 32 8' .9 ; ' 283B2' 8 : + 2M +' 3258' ?92' E98' 82BE ' ,& ' ' # ' 5 ' 28' <B : E2 B28' H<B\3B281' 52' 42 M 2582 J5 2B' 52' ; 252B' 589 EB2' +28' 30283923' H39' 4 : 8' +28F9 EB2104 2E 53' 42 E253' +2B0' ' C ' LLA ; 6' 8 ' ; : B8<B : ' H@2' <B 2+& ; : 9B1' \2' ; &258 53' H?9& + ; &25* 82 J521' \ B2' E : ' 3 +2530' O ! ' ' 5 - ' V 0' 3 ' 30' < ' 7%70' 4 58' ' 58' . B : + : 253' +2.?928' 2832' J2580' 23' 93B28' E2.?9280' $9 ' 283 : 253' 42' + : B' ; 28* 5 280' B 5.=28' J258' 23' G 25' 2582 J5 28' HG 25' \ +2E 2810' 3' J258' 42' G2+' 232 ; 253' H ; 5 \B21' 83 : 253' 39 3' . : ; ; 952 ; 2530' ' . ! ' V F7 ' 52?928' 32+' B28< : 582' 5& 88 ' H52' 8 : B3 31' & : ; ; 2' E + 5' ; +' 2582 J5 0' ' 7" ' B' .283 + EB2' < : BB ' +' H+2' . : ; 321' 283B2' 2582 K J5 2M . : ; ; 253' +' 42E2B ' J B42B' 23' 2B2' J B42B' +28' . : 9839 ; 2842' 8 ' 32BB20' ' 3M ' 2' . : 55283 G+2' 25' < B+ ' 5' 249R50' 23' +' 4 3' ?92' +' 5&25' 2582 J52B : 3@ ' J940' 82' 25' 52' + ' 4 : 55 : 3' +28' 425 2B8' E 530' ' 5' . : B42+ 2B' E 53 \ ' + ' 9' .= 832' 42' (2B280' 230' < : 9B' 2582 J52B' +2' B : 0' 4 3' 25' 8 : 5' 82B ; : 50' 5 ' V770' S 6 8 ' 28' 93B28' B8' 3 8. 25.28' 2582 J 3253' 95J' 5 : ; ; 2' 283B2' G : 5' 24 29B' ' G : 5' < 53B20' O# ! ' S 6 8 ' H 4 : 9 B4' 3' 8 : B3 B' 42' + 8' 3 : 98' +28' # G 3 538' < : 9B' + ' B2<29<+2B' 42' <9B8' 5J+ 81' 23' 5 : ' B23 53' ?92' 3B : 8' = : ; ; 28 ' 95' <B283B2' 23' 429A' 93B28' 5. 258' = : ; ; 280' G : 5' . : 9839 ; 2B8' 428' + : 8' 23' : B4 : 5* 5 5.28' 42' + 8' 23' 93' < : 9B' 2582 J52B' +28' =2B K 3 J280' : 88 ' ' ' S 6 8 \B' .= .95 @ : 9B' 9' . ; <' 8 : 98' +29B' 2582 J52' : 53' 2A2B. .20' 23' &95' \' 93B2' 2582 J52' S' 325 B' : B4B2' 2 ' ; 5 2B' + ' < .?920' ' ' +29B' 2582 J5 '+ ' 8 : GB 234' 23' +28' . . : 9839 ; ' \' <29' < B+2B0' ' + ' ' K7 ' . : ; < ' C ' +' : B4 : 55 ' ?9& +M 988253' 2+2E2M0' 583B9 38' 23' 2582 J52M' 8 : 9G8' ; 28 ; 28' ; 83B280' ; ' ' 7 ' 25+2E ' : B' 23' 39 ' 89B' +2' .= ; < +2' < 9EB2' BG B ' ?9 ' +2' +9R' E : 3' 2582 J540' 42' <29B' ?9& +' 52' +2' 4 83' \' 4& 93B280' 5U' 583 ' V ' ' J253 +8' : 82+238' ?92' E : 98' 28328' =29B29A+' 39B2' 4&2++2' ; 28 ; 2' \' & ; : 9B' E : 98' 2582 J520' ' GB

-' N (! ' B : E25? ' - / - # ' - / - # ') ' <5 B' . 3 + ' - - #3' 28< J5' - - #3' < : B39J' - - #3 ' - / - # 3' 4&95' G 8*+ 3 5' - / - # ' 42' - ' 250' 23' / - 7 ' 8 J52

' Q 5*84*J529B/0' ' ' 2+9 ' ?9 ' 2582 J52' 29A' ?9 ' 82' 4 8 253' <25829B80' 2582 +' J529B80' .B9B253' ?92' &\ ; 2' =9 ; 52' 43 3' 95' 8 : 9 2' 4& B0' ' ? ' "

-' # + B' A5 6' 8 ' 3' 32+2' . : 9B3 : 8 2' E : 98' 3' H 2910' ?92' +' E : 98' ' G ++4' 2582 J529B80' < B' ?9 : ' E : 98' . : * 5 : 882M' ?9 53' E : 98' 328' +2' G 25' 23' ?9 53' E : 98' 328' +2' ; +0' 9' %F ' LL AE6' 8 ' : 582 ++2B8' 428' <B 5.28' 939B2' 23' 2582 J529B8' 49' 8 ; < +2' <29<+20' 8 ' ' . * # ! ' 1& # ' ' 0'

-' . ! ' < - / - #3' <B : E25. ' - / - # ' -) ' / - " ! #3' 28< J5' - - " ! #3' 3 ' - / - ! # ' 58' +2' <B : E25? +0' - / - # ' 283 +2' 5 : ; 5 3 0' 23 -) ' / - " ! # +2' B4J ; 2

0' ' Q 5*84*+40' 42/0' : 4P ' LL 6' : 53' +2' 4 : 8' 23' +28' B2 580' 25' < B+ 53' 49' .=2E +0' <B482532 : 3 952' . : 5. E 34' ; B?942' 82 ; G+ G+2' \' 952' 82++2' 28' .G2E 9A' ?9 ' E E253' 3B48*E 29A' 42E 255253' 8 : 9E253 2582++48' 4 58' +29B8' 42 ; \B28' 5 : 4280' H@ ' 2B ; 2' 42

; 2B ' E B2' 2582++40' 5 E B2' 4 : 53' 0' E 53' 23' & BB 4B2' 8 : 53' : B3' B2+2E48' 23' +2' ; + 29' : B3' G 8

j ' ' Q 5*84*+4/0' 5 ' ' 2B ; 2' 42' ; 54J2 ' ! 233B2' + ' 82++2' \' 95' .=2E +

-' # ' O f 8 ' $9 3B2' .= E +M 2582+2M' 2325 B252M0' = ' ' 2, ' Y ' ' 5' V0' 23' ' <B : E25< ' ' ' ' 28< J5 '

! ' Q 5*8 5*G+& / 0' / ' LL 6' &95' E2. ' 93B20' +28' 958' E2. ' +28' 93B28' 8' 8 : 53' 8 : B3 8' 25K 82 ; G+2 ' = 53 : 580' 4 58 : 58' 2582 ; G+2 ' 582 ; G+2' E : 98' E EB2M' 4 58' E : 8' B429B8' 44+28 ' : ; ; ' 429A' EB 8' 25 5380' . : ; ; ' 429A' 3 : 9B32B2++280' 9 ' 50' ' $9 54' & ; : 9B' 23' & ; G 3 : 5' 82' B25. : 53B253' 2582 ; G+20' O ' ' & : ; : 33B ' : R2M' 8 ' E : 98' B : ; <B2M' .28' 4 B48' + 48' 2582 ; G+2' >2' 9 c ' 2A<+ ?92B ' +2' 5 : 294' ?9 ' +28' B 882 ; G+20' - 1 ' E0' VF ' # 4+ 8' 4 3' = +4 ; : 50' 8 ' E : 3B2' ; 5' <9 88 532' : 9* + 3' E : B 82B' @98?9& 9' G : 93' 429A' ; : B3 +80' 582 ; G+2' 5 : 98' ; : 9BB : 58' 25' 82BE 53' E : 8' 932+80' O ' ' , * ' 9 88253' + ' ! 2.?92' 2582 ; G+2' 23' #44 52' 23 2' 95 B' 3 53' 42' 9B29B' 23' 3 53' 42' <2B +4 2' 9 ' E0' ' +98' +' R' 4& = : ; ; 28' 2582 ; G+20' <+98 +8' 8 : 53' E 580' 23' 8253253' 5 +3B2' 25' 29S' 25E 2' 42' 82' 8 J5 +2B' < B' 42' <23 328' .= : 8280' c > " ' E 0' V0 25' 52' + 2' 3 53' +28' . : 89B8' ?92' 42' <+29B2B' 2582 ; K G+20' ' n ' Q ' A ' &G G 3942' 42' E EB2' 2582 <G+2' 3' 5 +3B2' +28' <+98' 4 : 9A' 8253 ; 2538' ?9 ' 8 : 253< B ; ' +28' = : ; ; 280' ; : 9B' . : 5@9J +' 23' & K ; : 9B' B 32B52+0' - ' 6 < B3 20' < ' V 0' 4 58' 4* ! ' : 3B2' . : 9B3 8 5' <= + : 8 : <=2&8 ' .28' 429A' ; : 38' <29E253' ++2B' 2582 ; G+ ' ' ; 3' \' B . : 532B' .2332' = 83 : B20' : 0 + : <280' : 2 ' 2<9 8' + : 5J32 ; <8' : 5' 8 : 9<? : 55 3' ?92' & ; : 52' 23' & B4* 5 : ?92' . : ; ; 95 ?9 253' 2582 ; 42' < B' + ' B E 4B2' : B20' : ' + ' . : 9B' 42' 8G : 552' ' <+98 29B8' 43 G+ 88206' ; 2538' s ' " ' A0' VV ' 2' 8 +25.2' ; 4 ; 2' <B : 9E2' ?92' +28' \ ; 28' <29E253' 4 B2' =2B29828' < B' + ' <B2825.2' &952' 42' & 93B2' . B' .2' 8 +25.2' 5& : <4B2' 5 ' +2' 42J : 3' 5 ' +&2559 P : 552' 4 3' B 250' ; 8' : 5' 28' 2582 ; G+20' # # s & ' .= ' CF ' 2M0' 230' G45 88 53' +2' 29' ?9 ' E : 98' B 882 ; +420' = 532M0' <B 2M0' <+29B2M0' . : 58 : +2M*E : 98' 2582 ; G+20' ' O ' ' ' 3B2' G 25' 2582 ; G+20' 82' 4 3' 4 : J258' ?9 ' : 53' 42' G : 58' B <<B38' 253B2' 29A ' : 98' 8 : ; ; 28' 3B \8* G 25' 2582 ; G+20' 8 \E ' NN I ' ' + ' : 80' 25' ; 4 ; 2' 32 ; <80' 8 ; +9 3 54 ; 2530' +' 93 . : 5E259' ?92' +28' 429A' 4E2B8 B28' 3 B2B 253' 2582 ; G+2' >2' 52' 89 8' < 8' 25K 82 ; G+2' E29J+2' 23' 34 ; 4B B20' R0' ' +' 25' 283' 42' ; 4 ; 2' 428' 4 8. : 9B8' ?92' 428' . : B<8' ?9 ' 4 : E253' : B* 4 5 B2 ; 253+29B' <B 5. < +2' 2A.2+25.2' \' & 882 ; G+ J2' 23' \' +9@9832' <B : < : B3 : 5' 42' +29B8' ; 2 ; G 28' 42' 8 : B32' ; 4392?9&25. : B2' ?9&95' ; 2 ; GB2' 84< B442' & 93B2' 50' 3' B 25' 2= ' 8 : ' 42' B2 ; B?9\G+20' 3 : 98' 2582 ; G+2' 52' + 88253' < 8' 42' B2' 95. : B< < B 30' ' = #,1 ' . = ' : 98' ; 2' = +882M' <+98' ?92' 3 : 98' +28' B2.8' 25K 82 ; G+20' W4 B ; 0' N ' >& ' E : 3B2' ++2' 2582 ; G+2' 23' ' J+ : B2' \' 44 254B20' - $" ' E0' F ' +' 2 3' 434' 3B <' =29B29A' 8& +' 2 3' <9' 82' + EB2B' 2 3 \ B2 ; 253' \' 8 : 5' J : 3' 8 : 3' < : 9B' + ' < : 48 20' 8 : 3' < : 9B' + ' <= + : 8 : <= 20' 8 : 3' < : B' 3 : 9328' +28' 429A' 2582 ; G+20' M A ' : 98' +2' E 5' 5 : ; ' 42' G 25 329B8' 28' JB 548' 82 ; 253' 2582 ; G+2' 23' +28' 4 : 58' 23' & : 25820' ' 2' 82?3 ; 253' . : 5 98' 42' 3254B2882' 23' 4&2 B : ' $9 ' + ' B <<B : .= 2' 2582 ; G+2' 23' &4+ : J52' 42' ; : 0' = 9. 80' C * ' 0' %' LL : 93' 2582 ; G+20' ; 4 ; 2' 8258' >2' ; : 9BB ' 3 : 93' 2582 ; G+2' =29B29A' 23' ; += 29* B29A0' #29B29A' < : 9B' : 9882BE B' 42' <2B4B2' 58' + ' E 20' +G29B29A' 42' ; : 9B B' 8 58' E : 98' E : B' 82BE 20' ' 0' & 2' <29' 4&=29B28' 42' + : 8 B' 23' 42' 8 532' 3 : 93' 2582 ; G+20' 4 58' . : 98 5 ' $9 54' : 5' 4&95' 23' 93B2' 28<B 3' H&28<B 3' J4 : ; 43B ?92' 23' 28' <B 3' 42' 52882' 3 : 93' 2582 ; G+20' " ' O ' 3 ' , ' 28' 44+28' <<B255253' ?92' +2' EB ' 290' +2' 29' 4&+8B 4+0' +2' 29' 95' 23' 54 E 8 G+2' 9?92+' +8' 8 : 53' . : 58 2B48' < B' +2' G <34 ; 20' 283' 3 : 93' 2582 ; G+2' 4B20' +8' 23' 53* 8<B 30' 50' 2 ' +' 5* 83B9 3' +28' 2 ; <2B29B8' 23' 3 : 93' 2582 ; G+2' 3' B254B2' : G4 88 5.2' ?9 ' +29B' 283' 4920' " ' 3 3' +0' VV ' 5' << : .=2' 3 : 93' 2582 ; G+2' E2. ' + G2B34' 23' E2. ' B232* 5920' ' &283' 58 ' ?9&95' .4+4GB2' 4.B E 5' ?9 ' 5&283' 5 ' 8< 5 : 8 832' 5' 44 8320' 8&283' E9' . . 982B' 4 58' 952' J M2332' 8 58' E29' 4&43B2' &95' 23' 93B20' ?9 : ' ?9& +' 8 : 3' 988' ; < : 88 G+2' 4&43B2' 3 : 98' +28' 429A' \' + ' : 8' ?92' 4043B2' 3 : 93' 2582 ; G+2' 4 : +\3B2' 23' @9 0' & 0 O ' * ' 6 E : + ' > *4* ' C> * ' < ' Y)M ' 4 58' ' Yd 582 ; G+20' 25' . : B<80' 25' ; 882' 254B2' +2' 3 : 93' 2582 ; G+2' 254 53' ?9& 55 G +' B283 ' E2.8 : 5' B ; 42' 2582 ; G+2' ; G+2' G 33' 3+28' : ; 580' ? Q < ' +' 8& J 88 3' 42' 89B<B254B2' B* ; 42' B98820' 2582 ; G+2' : 9' 4 8<<B8420' 42' B2' 95' . : 9< 42' ; 5' E2. ' ?9 3B2' .253' ; ++2' = : ; ; 280' # ' ' . " ' 0' ' @ 2' 3 : 93' 2582 ; G+20' +2' 3 : 93

<B 8' \' + : 8' 2 ' 8 58' E : B' ' 5 ' ' 9A' 443 ' 23+2' 2 : ; 44 2' ' 428' 44 9380' ; 8' +2' 3 : 93' 2582 ; G+2' 33 K .=2' +28' 8<2.3 32=B8 ' ÑN Í ' 2B ; 8' 42' <2 539B2' 2332' J9B2' 283' G 25' 2582 ; G+20' 2++2' ' 42' @98328' <B : < : BK 3 : 58' ! 233B2' 952' 0 J9B2' 2582 <G+20' 25' 2582 ; G+2' : 9' Q 2582 ; G+2' LL%6/ ' 5 ' &9 : 5' 428' < B3 28' 4 58' 95' 3 : 93' 2 23' ?9 ' 125' B489+32' : 93' .2+ ' : ; 2' 95' 882M' G2 ' 2582 ; G+2' 2' 5&28+' < 8' 882M' ?92' 4& E : B' G 25' 43 G+ ' 2582 ; G+20' +' 8& J 3' 4&R' 53B : 49 B2' +28' 423 +8' 8 58' 443B9 B20+ ' ; 8820' " " ' > , ' ' " ' .= ' ' R ' 4 58' +2' 4 8. : B8' 429A' .= : 8280' + ' + 8 : 5' 23' 2582 ; G+20' " ' 2 ' 0' A ' : 9B' @9J2B' 49' J45 2' 42' R.9BJ920' .&283' 2582 ; G+2' , 42' 8 ' +2J 8+ 3 : 5' ?9& +' \93' . : 58 44B2B0' & J ' & ' .= ' NV ' 5' < : 48 20' B 25' 5&283' G2 9' ?92' < B' +28' B << : B38' 428' 443 +8' E2. ' 2582 ; G+2' 23' 42' 25* 82 ; G+2' E2. ' 5 : 98* ; 4 ; 28/0' ' +4 ; ' + 3 ' : B , / ' 3 ' E ; 0' < ' ' 4 58' C ' 2' .= B ; 2' 428' 423 +80' +28' G2 5348' 42' 2582 ; G+20' " ' $ ' ; ' L ' F6' 2B ; 2' 42' ; 98 ?92' . . : B4 ' A4* .932B' 428' . .29B8' E2. ' G2 9. : 9< ' 4&2582 ; G+2' LL ! : B* .2 9' 4&2582 ; G+20' ; : B.2 9' . : ; < : 82' 42' <+98 29B8' < B3 28' 2A4.93428' < B' <+98 29B8' 583B9 ; 2538' : 9' <+9K 8 29B8' E : A' ! 98 ?92' 4&2582 ; G+2' LL G8 : +9 ; 253' 2' 0 5 +2' 82' 32B ; 52' < B' 95' G2+' 2582 ; G+2' LL C0 2B ; 2' ; + 3 B2' : = ' 8 : 5*?9 ' 283253B2' +28' < B3 28' 4&95' . : B<8' 4 : ' 3B : 9<2 ' : 5' . : ; G 3' 420+ E2 ++2' 238 ; B. = 2' 5 : .K 39B52' E 253' .=2E +' 8 : 5' . : B<8' 4& B ; 42' 828' 4 E *' 4 : 58' E 253' 25. : B2' ?92+?92' 2582 ; G+20' ; 8' < : 9B82' 3B 52B0' < : 9B' ; : 9B B' 23' 5 : 5' < : 9B' . : ; G 33B2' 08 \ 9 0' ' ' . " ' A0' %' LL 28' G : +4 38' . : ; ; 25.253' \' ; 23K 3B2' 42' 2582 ; G+2' 4 58' +29B8' ; : 9E2 ; 25380' 2&283* *4 B2' +8' ; 5 : 29EB2530' +8' ; 5 253+29B8 B ; 28' E2. ' . . : 4 ' 2B ; 2' 42' ; B 52' # : 9E2 ; 2534&2582 ; G+20' ; 5 : 29K EB2' J454B +2' Q 952' + : 332' : 94&952' 28. 4B2' LL ' 2B ; 0' 4' 42' ; 54J2' 5' .=2E +' ' 42' 2582 ; G+200' + : B8?94' 28' <B : < : B3 : 58' 8 : 53' G : 5528' 230' B4J9+ 4B28' 828' ++9B280' 828' ; : 9E2 ; 2538' : 53' 42' 2582 ; G+20' + : B8?9& +8' 8 : 53' B4J9+ 2B8' 23095 : B ; 28' LL ! 233B2' 8 : 5' .=2E +' 25K 82 ; G+20' : G+ J2B' \' B 882 ; G+2B' 23' \' G 2=' 4 83B G92B' 828' : B.28' ! 233B2' G 25' 2582 ; G+20' ; 233B2' 95' .=2E +' 89B' +28' = 52G28' LL 238' 4&2582 ; G+2' .3 : 5' . : ; *' G 542' 42' + ' ; 5' 23' 428' @ ; G28' R 53' < : 9B' G93' 42' B\ ; 25 2B' \' + ' < : 8 3 : 5' 4&4?9 + GB20' 8 58' <B : 49 B2' 42' ; : 9E2 ; 253' 25' E 53' 5 ' 25' BB 4B2' 3 : 9328' +28' < BK 3 28' 49' .=2E +' 7 ' 3 : 3 + 34 ' &2582 ; G+2' 428' G : ; *' ; 28' ?9 ' <29<+253+ ' 32BB2' &2582 ; G+2' 428' 5 3 : 58' 29B : <4255280' &2=82 ; G+2' 428' : B4$ 5 5.28' 428' 5K . 258' B : 8' 42' B 5.2

-' ' O f 8 ' 582 ; G+2' : 4' +9 ' : + 54' 23' + E 2B0' ' < ' $9 ' Q@92+' . : ; <2B3' H?92+' ?92' 8 : 3' 2+9 ' ?9 ' +2' < R2B 0' ?9 ' 82B ' E 5.910' E259M' 25' 8 : 53' 2582 ; G+2' H 9A' ; 5810' 1 ' .AA ' LL A 6' 8 ' ' +9 ' 4 3' 258' 5G+2' 5+B : 58' <+98' < ' < ' 7 0' 582 ; G+2' . : 5E 253' B2 ; 5 : B' ! : ' 23' 5 : B' < B' 283 : 9E : B' H< B' 42E : B10' , ' AE@5 ' ! 532' G 3 +2' H3+81' 25' B253' 23' ; 532' : . . 8 : 50' 3' 8 ' ; 9B253' 58 ; G+2' ; 28+42' 23 . : 5325P : 5' # 7 ' 5 ' 53' 82' 8953' 4& ; G28' < BM 42' . : B42' <254' ' G : 58' B2 8' : 2X 8' 2' 2E28?92' 2' G40' $9&2582 ; G+2' 8 : 53' + ' B238' 2' 8 53' = : ; 8' 40' - 3 : 83' .9 ; ' 8&253B2E B2530' \' +2' ' VV L@A5 68' > ; 8' .2B328' 52' 5 : 98' E2BB2 ; 80' 2' 258 5+2' 2' < B* +2B : 580' ?O ' / ' V 0' 3' E0' < ' 3 N" 0' 4\58' 3' + : B8' . : ; ; 25. 2B253' \' < : B32B +2' J 5J' 23' \' ; 23B2' 2582 ; G+20' 6 ' 58' 9' Z . : 58 98' H. : 582 +1' . : B4480' 23' +2B253' 3 : 93' 2582 ; *0' G+2' 25' 952 E +42' : ' +' 325 : 253' +29B' < B+2 ; 2530' 5' A ' B 5332 ; <8' H 2< 5' 23' 2B321' 9B2532582 ; G+2' . B' 58' <+ 3' \' 290' ' ; ' Q@A E6' 8 ' 3' 52' 8 93' < 8 .28' 3B : 8' .= : 828' 4 E 8428' 4&2582 ; G+20' ' @ 3=' V7 ' O f 8 ' & B32E2++2' ; 3' <+98 29B8' : 8' +2' . : 582 +' 428' G : 5528' E +28' 2582 ; G+20' < : 9B' < B+2B' 44 ' ' 0' 30' NN ' 3' Q19 54' +28' 82 J529B8' G K B : 58' 8& <B : .=2B2530' 23' ?9& +8' <9B253' 428' + 5.28' 23' 428' 28<428' E25 B' 2582 ; G+2' 4 : 5. ' R' 2 3' 49B2' G 3 +2' ' V7F ' >@O f 0' 8328' E : 98' "%&: ' ?9 ' E2M . : ' JB 54' 4 2B253' 2582 ; G+2^ ' O ' 50' V ' 3' 5 : 98' 82 ; G+ : R3' \' : 9< ' ?92' .2' 2988253' .+ : .=28' JB : 88280' <23 328' 23' ; 24 . : B280' 2582 ; G+2' 8 : 55 5328' 3\ ' E0' V ' : 9B?9 : R' 82' Q+ E 82B : R253*2+28' 4&25K 82 ; G+2^ ' B ' #8' . : 92G253' 25' 428' + .38' 4 A' : 5' 4 : 9M2' 2582 ; G+2' E2. ' +29B8' 2 ; ; 280' ' VFV ' B 548' Q ; 582 3+2B8' 3 A' 33 ' B28' 4&283 30' 23' 25K 82 ; G+2' 3B48' 8? E 5380' ' ' V" 0' +\' 5& : 53' B 25' \' 4 E 82B' 23' < B3 B' 2582 ; G+20' ' 0' 0 VM ' +2.39B2' ?9 ' <+ 83' 23' <B : +20' V< ' 42 2.32' 23' 583B9 3' 2582 ; K G+20' ' 3 : 93' .2' ?92' ' 5 : 8' 9B : 3' 428 B0' $ ' O ' ' \8 5342' : 8' 8& << : 532B0' 3 5342' : 8' 82' 82G2B0' 53' 42' ' 8' B : ; <B2' 2582 ; G+20' 23' <9 8' (0' B25 : 92B0' ' &283 : 3' 33 < : 53' 433 @ : 9B - ' Q ! 0 / # ' 2582 ; G+2' : 5' E24+20' 23' 3 : 93' 2582 ; G+2' : 5' 4 : B3' &3 : ' .2 +' 253B2*89B<B 8' 49 B2B2' 42' + ' ; : B30' * D23 ' ? ' . B40' ' A ' = : 9BJ9 J ' * / @

-- 3' U :50 28B 52 5 ; 9B: 80 2.> 4 W B:5.= 0
- & ' - -- 3' 'B:E25.' - ')'
3' 5:'. 3 +' - 3' 5.' 28< J5' - '3'
5.'<:B3' - # 3 JM' - - # -)'
3' 49'+ 3 5' 350 250 23 7 '2582 ; G+2 Q.: ; <'
! /' S' . 33" 4&2X8 ; .>20 + ' E 4 ++2 + 5J92
E 3 & 4E2BG2 - a - ' 0
! V+ 0 Q *82*; 5*8"0 8"2/0<4B '
= ; <'2582 ; 2$."25 G 4' 00 '
3 B # 'Q 5*'2*; 5082*; 5/00 ' '
S.3 :5'42 B4< 4B26 8 B'+2 8:+ 23 T4&2532B0B2B +28 82*
; 25.28 42<3 5428 "<B:49 B2 428 04.:+328 5:9E2++28'
&2582 ; 25.2 ; 253 4: 3 82 B2 25 32 ; <8 3++2
-' (' S # 0 # + 0 ! ' 5*
82 ; 25.2 ; 253 283 +2 32B ; 2 J454B ?92' ' 8&2 ; <+: 2
25 JB .9+39B2 23 R 283 8R5:5R ; 2 42 82 ; +280<:9B
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25 <+2 5 .G ; <' 2 ; 8 8&2 ; <+: 2 25 =:B3 .9+39B2 23
<:9B +28<'328 ?9 53 48 42 82 ; 25.2'S 58'2582 ; 25*
.2 ; 253 23 82 ; ++28 8253 428 32B ; 28 4& JB .9+39B2 P82*
; 8&9532B ; 24&=:B3 .9+39B2' 582 ; 25.2 ; 2530 258'
< +34 42 32B ; 2 J454B ?920 8&2 ; <+: 2 <:9B 93B2
.=:82 ?92 +'32BB2 ':5 4 B 3 ?9&952 G +2 'B2Q '95
2582 ; 2=.2 ; 253 4&G9+3B280 5:5 82 ; ++28 5 '82 ; 8
-'# 'o -r8' :52 8 58 B23253 :50 <:9BE: 48 4
02582 ; 2=.2 ; 253 42 283 5J B2.'3:932 +G2B8+340
' ' M
-' (!'<- -(#
'Q 5*82*; 5*84' 2 '<B254 952
.44 ++2 42E 53 ':9 :'@&2582 ; 25< 0 2582 ; 25 58/0
' ' <4B2B &2582 ; 2:.2 ; 253' 582 ; 25.2B 95
.= ; <' $' ++ 3 + G:9B2B +28 3B 8328 .= ; <8 42
! B80 c3 428 42538 4&95 82B<253 2582 ; 25.2B +'
32BB20 2*0:' C "'50 ' LL 582 ; 25.2B 95 43 5J0
952 B E 4B20 R ; 233B2 49 ; 259<: 88:50 42 & +2B 5'
' &25823 25.2B0 W0 # ' :9B +28 .4B4 +280 +'32BB2
8&2582 ; 25.2 4 & 93: ; 52 :9 9 <B 532 ; <8
B' # 'AEU F' '<B:E 5.2 283: 3 95 E2B82+ 2 ; 253
< B3:93 2582 ; 252420 'D7 '3 ' 4 ; 8+2 23
3B: 8 :9 ?9 3B2 2 ; 2++28 89 B:53 <Q X B E:98 2582K
; 25.2B 42 32++2 E:+ ++20 : ' 8' 'FN"0 "++ D
' U '<-' 0 23 -(
3' ' c0' 'Q 5*84*B40 B42/0 # ' '
4&2582B.2B 3 2BB44 58' 2 B4J ; 2530 2582BB4' 4 58
95 43B: 3 28< .20 52 <93 82 44E2+:<<2B
$! , 'Q 5*84*B40 B42/0 # ^ '4T25*
82BB2B '# 825 82BB2' 28 <+ 53282B:3 ?928 2582BB428
' ! 'Q 5*84*B2*; 5/0 ' -' .3 :5
4&2582BB2B0 4&25 2B ; 2B
-'# 'S 68' 582B32 ; 2530
V' ,RK <- ## # ' %
"' 'Q 5*84*B4/0 ' ' 2BB2B 4 580 02 ;*
25 2B0 .:5345 B' ' 93 +'H : ; 2I B2325 B "3:93
.2 ?9&2++2 2582BB2 : ; ; 2 95 J J2 88 B4 42 'B 8
42 2332 J92BB20 '%B4::+80 50 ' 2 44*
4 +2 428 .:29B8 25 828 423:9B8 5&2582BB2 25 ?9'
52 8: 3 4& G:B4 44 B4'< B 28 4 29A0 ' (& '
0 "7' ' B23:9B52 .=2M +9 0 4 58 +' . E2 + 25K
82BB2 & BJ253 23 +'@: 2 4 +' : 80 5' '5 'F'
& E B2 B B2 ; 253 5 3 828 @:9B8 8 58 <+29B8 ' '
+2 ; : 58 42 < B3 9 3B48:B ?9& + 2582BB20 =48 9*
B 8 53 <:9B +28 E:+29B80 :9B 828 < B2538 :9 <:9B
+'32BB20 - ' x' r' 0 "N' 28 . 29A 583B9 8253 +'32BB2
S B4E4B2B +29B 9329B :93 .2 ?92 +29B J+:G2 25K
82BB2 4+4GB2 95 29 2B4 329B0 >' '' ' "
0 ' ! 8?9 54 @& .=23 0 4 32a*; : 0 .2+ 2 32BB20
28 E J528 23 828 <B48 23 3:93 .2 ?9&2+2 2582BB20
'0#! 7#' # '8.' 6'
-'# 0 A +6 8' '+'H8 ' +2I 3 25 +'3:9B 256
2582B 23 B2 ; 54B20 58'+' .9 42 G 25 .= 83 2B 23
4283B 54<20 ' '.! - # '<'"' 0
5 253B '4242580 23 + 9 <9 8 G 25 +:5J92 ; 253 25*
82B48 4 ; :93 JB 53 ; 28 82 G 25 < B 3B2 M2 ; : 8 :9
<+980 E5 # ' = ; < :9 E J52 ?9'283 2582BB42
25 93B280 4: 3 E: B8'E: 2 9 <+98 <B48 4 :9 .=2*
; 50 8 5M +2 4: ; J2 4 E: 8 50 + 5'"';7 '""' 2
+'E+ 58 <:: 3 8 E: B $92 @2 9882 .'2582BB40 . -'
"""" 2B328 J2 32 2B '=2B0 9 2582BB2B 5 952 349B0
'.! ' NN ' S 68' B28.=2B +G2B34 9A 2 <3 80
:5E2B39B2 9A 2582BB2M0 '58'%7F' 2<9 80
283 53 BB E4 4 2B .+48 55 B25 :B3 42 < 52 JB 54
5: ; GB2 42 E 882 9A0 +M 9B253 4:5:'2582BB2M 42
3:93 <: 5.30 ? ' # ('"7' 5 :G8.9B2 :882 H@2I
; &2582 B 0 : ; ; 2 .29A ?9'8:53 3B28< 88240
' C' '+' 5 39B2 2582BB20 4 58 +28325 =2842
8:5<B:JB2M :B4 5 B20 +28 @9J2 ; 253823 :< 5 :58 428
=: ; ; 28 8'2++28 :53 +2 B B2E:+93 :5 '6 ' 'MMD
' ' 5"0 23 ## #3' 2BBR0 58 BB2BP <B:K
E25P'2582BB B 2882BB B0 # # ## # ## #3'
28< J5' - ## #3 3 +' - ## #
' 'Q 5*84*B4/0 5' : ' 2B ; 2 42 @ B4;*
5 J2' ! 233B2 2582BB2' 582BB2B 428 :B 5J2B8
-'F (!'<-'"0

3' ! 'Q 5*829* 2*; 50 ' ; : 9 +*
428/0 ' 2B ; 2 4& B.G 32.39B2' : ;'4:5544952
.2B3 52 = 9329B .: ; <B 82 253B2 & <<9' 4&952 2*
543B2 23 +2 <+ 5.=2B' 2332 2543B2 '3 53 4&25829 +*
+2 ; 253
-'# $ '<-'"0 23 7
0 'Q 5*829*E2*+ 0 + 2/0 # ' '
4&2582E2+ B' LL " 58 +2 83R+2 4+2E4' ! 8 4 58 +'84*
<9+39B2' + 283 ; :B3 8 E:58*5:98 8& + 283 2582E2+'^
'C &#' 0 Y' 5 434 ; 2+ :9G+' 253 E2.' .2 82K
.B23 #2B. 42 2582E2+ 0 9 ' - "'E' 'NN d B 2AK
3258 :50 B2.:5E2B3 < B ?92+?92 .=:82 ?9'8&253 882'
+8 8:53 2582E2+ 8 8:98 +' ; 882 <28 532 28 ; :538
?9& +8 253 88 253 <:9B 33 ?92B +28 . 29A0 C '
0#! # ' 0 ' :5 <4B20 2582E2+ '4 58 +' :9+2 428
; :B38 ' ! 2 + 882 4 58 +28 2B8 4 ; : *; 4 ; 2 5.:5*
5920 & / ' 50 "' :94B:53*+8 ?92 +29B 32 ; K
<+2 2582E2+' 8:98 &=2BG2 ' "'? & ' ; 0 ' :5
E 882 9 93 2582E2+' 4 58 +28 :54280 ' , '-'
+R8824: 3 43B22582E2+'4 58 +28 :54280 ' 5 '
2 8 8*39 < 8 ' $92 582.32 58258 G+2 2582E2+'
8:98 &=2BG20 3 & J+2 ; <4B 29A ?9'<+ 52 9 = 9+
49 . 2+ '9 ' - ' 0 "' :3B2 @:52 5 +2A G+2
23 89<2BG2 :94B 3 E: B 5:8 B2 ; < B38 2582E2+ 8 8:98
=2BG20 '@ # 7 'E0 "' 90 8'4 58 +29B
9B29B +2 8:B3 52 +28 82.:5480 ; G2B 2582E2+'8:98
+28 44GB 8 49 ; :5420 0' # "' #"7'E'
' '! 8 25 :9G+' 4 B 5.2 4 & 8< J52 8& + 20
+29B 4 8.:B48 283 2582E2+ 20 '9 ' 4 ; :580
443B9 82M .2 < + 8 5:580 230 8& + 82 <293" ?92
; :5 ; :9B 552832 2 ; 29B2 2582E2+'4 58 .28+ 29A
<:9B @ ; 80 C ' ?# " ' E0 8.' 42B5'
'$9&25 95 <B: :54 :9G+' 23 =:BB G+2 82.B23 42*
; 29B2 2582E2+ 0 ' "' '8' 28 G+ 8<=4 ; :8
?9' 9B 253 44 43B2 2582E2+ 8 E2.'+2 <' 5 8 ; 20
? '1 #' -;7 ' 58'+2 ; + 283 25 4E 425.20 23
+2 G 25 B2838 2582E2+ 0 '1 ' !# 7B'
C - &#' !##' ; :G 25 42 E4B 8 93 +280 B: 42*
; 253 23 54 J+ J2 ; ; 253 45 :924280 R 82B 253 B28 428
2582E2+ 280 8 93 &4 :92522 5&43 3 E2592 +28 B23 B28
.: ; ; 2 49 3: ; G2 9++ ' < ' 304' $ 99' 3' 0
<')' 4 58 ")H 'bb;B J' 5 :5240 <+:5J4
4 58 .2 ?9'283 .: ; <2B4 4 952 84<9+39B2' 3 42
; ++8 <2582B8 ; :5 28<B 3 J 34 B +3 2582E2+' 4 58
+'839< 4 340 'K # '/'M' :98 52 8: ; ; 28
. < G 28 42 .:55 +3B2 ? &95 82 + :G@23 23 952 829+2
E4B 34 4+' ' : 8 +2 B2838 42 ; 29B2 2582E2+' 4 58 5:*
3B2 ; 4 ; : B2 .: ; ; 2 8& +5&R43 3 <+: 530 '
" ' !#' 60 3B 340 .GV FP 28 =: ; ; 280 2582E2+ 8
4 58 +'.= B23 4 58 < 8 5J0 E 253 <:9B3 53 .:5*
82BE4 952 442 :G8.9B2 42 +'<9 88 5.2 4 E 520 '
K ' ' 0 9B3:93 @2 B24:93 8 .2332 ; 4+ 5.:+ 2 =
@& 'E9'8'+:5J32 ; <8 E:3B2 4 ; 22582E2+ 20 '?-"#'
'"' 58 95 4:=2 8: ; ; 2 + .B: 8*39 ?9&25822E2+ 3
.= ++2 9B'<:9B 2+ 2 ; <954 ; 253 <4+'^' "' & /
' ' 28 8 4.+28 ?9& + 82B 3 8' E 53 J29A 42 .:5K
5 +3B2 8:53 2582E2+ 8 4 58 952 <B: :542 :G8.9B 340
'<7" '& '< B30 ' -#!"7(!-' '
82 ; G+2 ?92 5:3B2 8 53 <B:<=432 3 29 <B 5. < +2*
; 253 25 E92 42 5:98 <B E2B 42 3:93 .2 ?9'<253 3B:9*
G+2B 5:3B2 B 8:5 + 5:98 '532B4 3 &98 J2 49 E 5
?9'+'3 253 2582E2+ 20 C'+ ' # 'MM'LL -'"
2582E2+'4 58 +2 8: ; ; 2+0 4:B ; B <B: :544 ; 253'
B2 2582E2+'4 58 +'44G 9.=20 4 58 '.B <9+20
8&R G 54:5 28 8 58 B232:940 LL B2 2582E2+'4 <'
+28 GEB280 +B2 8 58 .288 / 4394 28 8 58 82 4:552B
42 B2+4.=2' U$ 3B2 2582E2+'#0/(+2 .= JB 50 E: B
G2 9.99< 42 .= JB 5' /$-/' 42<9G 429A @:9B8 +'
85<2BG2 3= + 2 58 5 .= JB 5 <B: :54 < B +3 25*
82E2+ 20 '?8&'+0 "' LL :E2 :<<44&95'3 5.2 +
582E2+'4 58 +2 42B5 4B 4B < ?9& + <:8844 3
'Q 5*829*E2* B ; ; ; 2 429A 8R++ =28
; 923328 52 <29E253 82 89 EB2 ; ; 44 32 ; 2530 :5
4:552 4 +'8R++ G2' '+28:5 42 73 93B2 :8 :5 <B:*
5: . 3 25*84*E2* B0 49 ; :58 .=2+23 4.B 3 58 /0
' ' 58 +2 83R+2 2+2E40 4<:82B 4 58 +' 84K
<9+39B2' :5 .:B<8 93 2582E2+' E2.'+28 ; 4 ; 28 =:5*
529B8 23 +' ; 4 ; 2 <: ; <4 ?92 .29A 428 B: 8 49 +*
; 280 'K ' - '1D75# '%'E0 <' Y)'4 58
c ' 2582E2+ 8 <:9B 3:9@:9B8 4 ; 8+2 82 5 #"'+'
32BB2 .2 ?9+2 +2 E 3 <:B344:'<+98 < B 3 23 42 <+98
; G+20 ' 'C -!-' + (7 ' 6'B3'
G8:+9 ; 253 $9'343 2582E2+ 3 G 25 8:9E25' 88 8*
8 520 3 32+ 283 VB U44 953 ?9'5&25 '?92 +' ; 520
? ' ' P ' B 2A3258 :50 ; 233B2 8:98?92+*
?92 .=:82 ?9 '283 .:58 44B4 .: ; ; 2 95 3 8' &283
8:98 +28 ; 528 49 3B452 23 49 <+ 8 42 E:3B2 E 29A
3RB 5 ?9& + 93 &2582E2+ B E2.'3:58 828 .: ; <+ .280
? 'D # '.=' ' 2 2G ; 2 9 ; 29A
583B9 30 .:9BG4 8:98 +'32 ; <4320 58 +2 8 G+2 49
B4;*: 58 2582E2+ 3 8 '34320 '? 7 #'50 C' 3
& 5 :< 8 G+20 23 & B 4 5 :9J929 0 $9 0 B:9+ 53 '
3B E2B8428. ; < J528 4.:54280 :9B3 4 58 +2 E 8*

328 ; 2B8 2582E2+ B 828 :54280 'H !#/' E'
' B2 4 8< B +3B2'+2 52 ; &43254B4 < 8 4 *
E 53 J2 89B .2 <:2 ; 2 3:93 BB4J9+ 2B ?9& + 2830 +
93 ?9& + 3 ?92+?92 ; 4B 32 0 <9 8?9& + '89B*
; :534 & 5@9B2 428 32 ; <8 23 ?9& + < B +3 25.:B2 89B
5:8 3=443B280 G 25 ?9& + R' 3 <+98 42 E 5J3*. 5?
55428 ?9& + 283 9 ; :5420 23 ?9&952 8'+:5J92 B4*
E:+93 :5 25 3 2582E2+'G2 9.:9<8:98 +'<:988 4B2
?9'82 ; G+ 253 E: B <+98 42 4B: 3 ?92 +9' 42 <B4*
3254B2 \' 952 8 G29B2982 49B420 ' '"'> 7 '
(! =7 ' 2 <:9E 53 < 8 ; 2 B48:94B2 6 2582E2+ B
; ' ; 8:5 4 58 .2 +2 42 ! M B 50 23 5&283 ; 53 < 8
882M +' JB 5429B <:9B & .=232B < B +' = 52 <9*
G+ ?920 N' K '3'50 +E' 50 <' NF0 4 58 <:9*
' + 52 3 53 <B28?92 'B 25 ?9& + 5&2582E2+ 3 3:93
+2 < B3'42 #'+2 <B 5.20 "'3U +E' E0 <' " ' 5
G: ; ; 2 42 .:9B ?9'9& '< 8 95 882M G2 9 5: ;'4: 3
&2582E2+ B 8:98 95 ; 2 ++29B0 ' ' ' 'E253
E2.'+29B 8:29B 2582E2+ B +29B 5: ; 0 ' & " ' 0
"' I' .=2B . : ; 2 4 58 952 84<9+39B2' B 33B2+
39 <B43254 8 ?9&25 95 4.=2 8 +25.2 =44B2 2582*
E2+ B 3 3 'GB 3 +2 58:+25.2 (' & "# ' E0 '
28 3B48:B8 4:53 +2 . 2+ E:9+93 E:98 2 ; G2++ B0 28
E2M*E:98 B2P98 <:9B +28 2582E2+ B3 "'D# '90 '
'J+: B2 428 ; :59 ; 2538 ?92 &:BJ92 + :9 & 49+ *
3 :5 :53 4+2E480 82B ':9 2582E2+ 2 4 58 &:9G+'< B+2
32 ; <8 :9 2 .2 < B +28 .2589B28 23 +28 @9J2 ; 2538
<+98 4?9 3 G+28 42 + ' <:834B 340 ' 0 ' #'
. (" '/# -" ' !7#' '# ' B ?92+8 =2B48 ; +*
G29B29A0 4 58 ?92G 3B 8328 .+ ; 38 582E2+ B &=:B*
B29B ?9'8& 3+ .=2 ' ; 28 < 8^ '1<" ' E0 "'
H & B G2I 88 3 4 58 828 4482B38 2582E2+ B 8 'J+: B20
- ' 0 N' 2 82.B23 ?9&25 3:5 82 5 @2 4: 8 2:*
82E2+ B0 ' # & ' 0 N' 582E2+ 8:58 ; 'E 2 58'
?92 ; '4:9+29B 4 58 952 432B52+2 23 <B: :542 8:K
+39420 !]' ' 0 C '"'+ '<' " 0
4 58 <:9 'HL ' 5E2+:<<2B +2 .:B<8 4&95' ; :B3
4 58 95 + 5.29 ' &283 952 :29EB2 < 2982 ?92 4&2582K
E2+ B +28 ; :B38'LI B 2A3258 :50 2#(:+:<<2B .: 992
4&9'89 B2' :+280 2B4<280 = G 380 +9J9GB28 ; : 2*
; 25G0 : ; <8 :4 ; &2582E2+ 3 8 '<B2 ; 4B2 E .3: B20
'1"' 0 "' 'N6 &2582E2+ B0 E'# ' 98*
82.'3: ; G2B 89B 8:' .2 ?9'283 .: ; < B4 '952 84K
<9+39B2' &2582E2+ B 8:98 +28 ; 528 4:'+'< +< .20 +'
44 254B2 @98?9& '+' ; :B3'>2 ; &2582E2+ B '8:98 ; '
<B:<B2B9 520 '@ # 'E0 C'LL J'>2 89 8 #4B *
.+ 580 @2 89 8 +8 42 ! 9B .2P :98 .28 5: ; 8 <B4*
. 29A@2 .:9B8 ; &2582E2+ B0.: 'K # 'E0 'LLC 2
. .=2B' &2582E2+ B 4 58 +'B23B 320 4 58 +'8:+K
39420 82 B23 B28 49 ; :542' #: 0 B25:5.2B 9 ; :542
E 53 ?92 42 E 2 ++ B0 3 4 58 E:3B2 4482B3 ++2B
; &2582E2+ B+ ? '> B'E0 C'@@ 8B 2A3258 :50 8& G*
8:BG2B0 82 <3:5J2B' &2582E2+ B 4 58 +28 3 EB280 4 58
+'44G892=20 4 58 +2 .= JB 5' 'G2++2 .=:82 42 '
8&2582E2+ B <:9B 3:9@:9B8 4 58 952 < 88 :50 ' P'
>9 50 0
-' (' ' 582E2+ B0 .&283 25K
E2+:<<2B 95 .:B<8 ; :B3 4 58 +2 4B < <<2+4 + 5.29+'
532BB2B0 .&283 ; 233B2 25 32BB2 +2 .:B<8 ; :B3' &= 8*
3:B 85 89 882 9.= 3 8&283 4:52 2A<B ; 4 5.:BB2.32*
; 253 4 58 +' <=B 82 89 E 532 'W +E 5 ; :9B93 +2
C ; 'Q"NN"/ 23 93 2582E2+'3:93 8 ; <+2 ; 293 9 . *
; 23 4B2 .: ; ; :5 42 + 5< 8'U + ++ 3 4 B20 25*
32BB4 :9 5=9 ; 40 / ' +:820 / - 5' " + 93
4 83 5J92 '+2 30 283 ?92 2582E2+ B ' 29 42 3:93
32 ; <8 23 '25.:B2 +2 8258 42 4:552B +'84<9+39B2P
+ G + 52 & '?92 4 58 +2 83R+2 4+2E4P 23 :5 4 B'
:B3 G 25 ' + 93 2582E2+' .:34 42 828 +29A' ! 80
=:B8 42 .2 83R+20 2582E2+ B 8 J5 2 .:<(B B 49 3 5*
.29+P 23 .&283 <:9B .2+ '?92 &:5 52 4 3 < 8 G 25 W5*
82E2 B 9 . ; 23 4B20 23 ?92 #9 ; G2B3 2B 3 ?94 @98*
32 ; 253 +'<=B 82 42 9.= 3' + 93 B2 ; B?92B 988'
?92 3:9328 +28 ..2<3 :58 J9B428 <B:244253 42 +'
8 J5 . 3 :5 4:552B +'84<9+39B2
-'# 'S 68' B 83B253+2 .:B<80 8' 02582E2+ B253
2+ 82<9+.B2 895 <2B2 25 23=+22 ; 0 2 >: G2 8'.9 ; *
< J59 ;' 2BB2B253 3932 +'59 30 :G0 <' " F' 9 8
; :B 3 2 94 2582E2+ M 25 95 G:B3 42 F9$'< + 80 '
" "' 'A ; 6 8' ' 9 2582E2+ 8 25 +' ; 2582 2J+ 820 1&#'
" '. '<'"C' ! :9+3 9B: 28 852+ .=2E +0 2 52 32
<9G EB2B 283 +0 T 93 ?92 @2 9B4 3B 5J+:3' 3 42
; :5 E253B2 2582E2+ 0 . -'CC"F' +98:B 25 .28'
+29E48&25 253B2' :5 < 8 829+2 ; 253 @98?9& 9 E25K
3B20 58' 8953 39 3 2582E2+ 0 53 82 <+:5J253 28
+:8 42 + 0 +'.! 'N CC'< B 2B2 .2+ ?9'325: 3 +28
3B: 8 .:93 980 E: 3 95 93B2 ?9'325: 3 95 G:9?92*
B 5 253:B32 ++4 253:9B 8:5 GB 80 ?92 ':983 <B2*
82534 5 B:R <:9B +'2582E2+ B0 82 + :983 B2 9842 +'
B2?94832 9 E 2 + 42 +' ; :53 J520 + 'N7' 92B
?9'+' 5 42 .2 4 ; J2 Q+ ; :B3I & '3:9R:9B8 42K
E 53 8:5 E 8 J2 83 <B28?5&2582E2+'25 5298 H 9*
; 2B@0 '"' '> ' YYY '+LA E6 8 0 9B' & ; 2
+'B:R52 4:53 +'.:B<8 9 ; 9B4B 80 S &2J 82 : '8:5

.:B<8 283: 3 2582E2+ 8 ' HB (' F7 ' LLAEB 8' 2
<29<+2 ?9 ' B2 : 3 :<<B288 :5 4288:+4 380 52 +28 2A*
.982B ' < 83 530 <:9B 22 ?9& +8 +2 42 254 530 .: ; ; '
+ +28 ; 894 B ' ' 9 B' 22 ?9& +8 +2 42E:B253' 2582E2*
+ 88 53 +2 8:9E25 B 49 G 25 4 58 +2 8253 ; 253 428
; 9A0 $ N' 3 : ' ; 54B ' + '<B254B2+2 .:B<80
?9&2+2 25E2+:<< ' 23 2582<E2+ 3 428 ; 2 +29B8 4B <8
?9&2+2 29830 ' ? ' B ' ' E2B39 23 &G:5283234
42 2 ; :.+28 283 4 J52 42 5&283B2 < 8842 5R 2582<*
E2+ 2 25 8 +25.20 3:' K# ' :' ; G 25 42 G2+28
.3 :58 < B3 .9+ 2B28 8&2582<B2+ 88253 4 58 + ' :9+2
4&952 G 3 +2' ' ' 3
- ' (! ' <- ' 0 23 & 5. ' B 5? 8' 5 # ' 49 + *
3 5 # ' hE:R' 82<9 /
! ' Q 5*829*E2*+ *82* ; 5/0 ' '
.3 :5 4&2582E2+ B' &2582E2+ 882 ; 253 428 ; :B38 283 9
5 : ; GB2428 :29EB28 42 ; 8 B .:B420 ' " ' ? "
- ' # ' J 8' ' +' 7 , +21 43 /& +&7&3+ ' ,3
&3 &-& &7&3+ ' \ ' R #/ ' C # ' - ' 0+
- ' (! ' <- 5 #
' ' 0 ' Q 5*829*E2* *829B0
824*M /0 8' ; ' 23 ' 2+9 0 .2+2 ?9 ' 2582E2+ 3
- ' # ' 582E2+ 8829B0
- ' (! ' <- 5 #
' ; :3 2 ; <+:R8 25 = 83: B2 5 39B2+20
?9 ' 8 J5 42 < 2 23 ?9 ' E 25349 + 3 5 - ' < 2
3' ' Q 5*8 *\4*4&+0 " ; ' 2B ; 2 42 M: :*
+:J 2' $9' ' + ' ?9292 <+ 320 ; 5. 2 89B+28 G:B48 23
<: 5392
- ' (! ' <- ' 23 +2 + 3' 7" ' ?9292
+ + 0 ' Q 5*8 * :*+ * 0 N2/0 " ; ' 2B ; 2
42 G:3 5 ?92' $9' ' 428 29 +28 25 :B ; 2 4& < 2
- ' (! ' <- ' 23 +2 + 3' ! 7 ' 29 +2
%' ! ' Q 5*8 * :B* ; &/0 " ; ' 2B ; 2 4&= 8*
3: B2 5 39B2+2' $9' ' + ' :B ; 2 4&952 < 20 LL 29 +28
258 :B ; 280 29 +28 95 <29 < 8828 9 ; 2903B 5*
.= 5328 9A 429A G:B48 23 B 3B . 28 42 + ' G 82 9
: ; ; 230 ?9 ' 283 J9
- ' # ' ! J8' S . 982 42 ?9:R .2 . B3 + J2 283
<<2+ ' 258 :B ; 20 I' '
- ' (>3' <- ' 23 !#
3' ' Q 5*8 *+ *@/0 ' ' ! 82 23 J B42 49
G 8 4 58 428 8 +:8
- ' (! ' 5 3 0 23 !
' ! ' Q 5*8 * ; *@/0 8' ' .3 :5 4&258 *
; 2B 2+ 23 42 .2332 .3 :5
' ! ' Q 5*8 * ; 4/0 E' ' 2B ; 2 42 ; 59K
.39B2' ! 233B2 4J4B2 ; 253 ' + ' ; 5 49 8 54:9A
89B + ' 89<2B +2 2 428 43:+ 28 49 .434 42 +29B 254B: 30
3 ; ' 42 +28 <59E: B 3:54B2 <+98 . +2 ; 2530 +2 8 5K
4:9A 4 53 ' B2 .:9+2B +28 :B.28' & B3 .+2 NF 49
2J+2 ; 253 J454B +428 ; 59 .39B28 49 ; : 8 4& : 3
FN7 2 ; <4.=2 +28 3:5429B8 42 4B <8 4&2 ; <+:R2B
<:9B &258 ; J2 428 43: 28 9.9528 JB 8828 <<26
428 + ; G B30 ; 8 829+2 ; 253 49 8 54:9A 42 <:B2
+2 <+98 G+ 5.0
- ' (' JX' 2 9.958 2582R ; : 3 3B:< 82 N Y
+ 520 :9 25<:9BB: 3 H2 ; <:94B 310 :9 ; 233: 3 :BK
49B2 <:9B B2 <+98 <282B 8:5 4B <0 5:' 7 ')'
-7 ' ' !J8' : E253 283B2 +28 + 528 258 55428
42 8 5 .+2B :< 42 G29BB20 5' &' 2 + ' 4B <8 ?9 ' 82B '
3B:9E48:B8H8 +21 :9 258 R ; : 480 5' ' LLAE68' :9B*
3 53 + 2 +2 E92 +2 258 ; 20 $92 B2E E 28 52 <98820
,# A' "> (&' 7F
- ' (! ' ' :B ; 2 E4B 3 G+2 283 - - # ' J B5 B
42 - ' QE:R' @' b
%' ' Q 5*8 *< *5&/0 " ; ' 2B ; 2 42 M<:*
+:J 2' $9' ' +28 <25928 428 +28 25 :B ; 2 42 8 GB2
- ' (! ' <- ' 23 - - ' <+9 ; 2
3' ' Q 5*8 *B:*83B&/0 " ; ' 2B ; 2 42 M: :*
+:J 2' :53 +2 G22 283 25 :B ; 2 42 8 GB2
- ' (! ' <- ' 23+2' + 3' B:83B9 ; 0G22
' Q 5*8:*5 * +&0 ' ; :9 ++422/0 8' '
2B ; 2 42 ; B 52' 23 32 .?92' B9 B43 253 +2 G:93
42 + ' .B:882 49 J:9E2B5 + 4&95 G 32 9 :5.23
' 0 ' Q 5*8:B*82* 50 + 5*3&/0
" ; ' $9' .= B ; 20 ?9' <+ 3' ' 52 82 3B:9E2B ' <: 53
?92 @& 2 2 ; <+:R4 5' 432B 2 5' < B:+28 258:B.2+ 5*
3280 $ 'B '0 (C ' 90 <' N%' 2 + ; 5 4B24:53
E:98 ; 2 <2 J52M # B+ 0 2&283 95 E4B 3 G+2 + 294&25*
.= 532 ; 2530 ' ; 8 89B3:93 +28 4 8.:9B8 49 ; 3B2
49 .= 32 9 :53 ?92+?92 .=:82 42 :B3 258:B.2+ 530 23
:53 95 .= B ; 2 ?9 ' 82 3 8253 B @98?9& ' :9BG:50
' $' 1!## ' " ' @! 7' ' " ' . 520 L
! - , 8 @ ' ' Q 5*8:B*82*+40 42/0 # ' '
' 6 B: ; <40 3B:9G+4 < B 8:B3 +4J2' ' . 2+ + ++ 3
G 25 ?9&258:B.2+4 @2 98820 ' A / ' ! ' + 283
258:B.2+40 +2 .= B ; 2 283 3:93 E 8 G+20 ' C)'
B3 520 0 ' # 8:B3 3 25 44B:9320 .B:R 53 43B2 258:BK
.2+40 8 E' C' ' 6 $9' ' <B 8 428 <B:<B 4348 ; J*
?928' 2 .=2B.=2M <+980 +29B 4 3* +0 4& 93B2 . 982
&283 .2 <: B 2B0 + 283 258:B.2+40 ' % ' <29B2'
@ ' 82 4 30 < B <+8 8 532B 20 42 ?92+?92 .=:82 ?9

82 ; G+2 43B2 4 58 +28 + 258 4&95 8:B3 +2J2' >9J2 53
?92 .2 82B 3 448:B ; 8 593 +2 ; 253 ?92 .2332 <:B32
258:B.2+42 8&:9EB B 30 + B2J J5 ' &254B: 3 4& : 3 +
43 3 < B3 ' <:9B .2332 ; 2BE2 ++2982 2A<44 3 :50 6 :
0 " - ! ' 2 ' R' LLF6 J' $9 ' 283 33 B40 33 .=4
.: ; ; 2 < B 95 8:B3 +4J2' 52 @2952 .: 944 2552
4:53 +2 B: ' 283 258:B.2+40 8 E' N
' Q 5*8:B*82*+4' ' 8R++ G2 ' <B254
429A ' ?9 54 + ' 8R++ G2 ?9 ' 89 3 283 ; 92332 P @&2 *
8:B.2+20 @&258 B.2+2B /0 E' ' LL 6 B:9G+2B0 G982B
" ' 428 8:B3 +4J28' 28 J258 .B:R 253 ?9&:5 <:9E 3
+28 2589B.2+2B0 2+ & ; J 5 3 :5 +28 258:B.2+ 3 2 *
2.3 E2 ; 253' LL + 93 ?9&:5 & 3 258:B.2+40 82 4 3
?9 54 :5 3B:9E2 4 58 +2 + 5J J2 :9 +28 ; 5 4B28
42 ?92+?9&95 95 .= 5J2 ; 253 52A<+ . G2' ' 5:98
E :58 G 25 30 5:98 3& 9B :58 43B 5J+4P ' 93 8*
89B4 ; 253 ?9&:5 & 3 258:B.2+40 ' C - (& '
90 N' ' 93 ?9&:5 ; & 3 258:B.2+40 82 4 3 <:9B
2A<B ; 2B ?9&:5 52 .: ; <B254 B 25 ' .2 ?9 ' 82 < 882'
+ 93 G8:+9 ; 253 ?9:5 ; & 3 258:B.2+4P ' @&25
.:55 8 < 8 950 @2 E29A 43B2 43B 5J+40 7' 0 '
0 N' ' B 2A3258 :5' 53 E29J+2 <<43 3 25*
8:B.2+2 +28 = : ; 280 0 # ' E ' LLF' <*
3 E2B +28 G:5528 JB .B8' :98 5:98 258:B.2+2M0 E:98
25.= 532M 5:8 82580 ' ; :55 3B280E0 '
' 893 42 32+2 4B2882 258:B.2+2B ! B ; 20 $9&25 + '
<+ .2 49 <B 5.2 + 82 ; 3 4 58 8:5 ' A '
' ' ' +2 8: 5 42 3:93 +2 ; :542P + + 3320 + 8& 5*
8 5920 + 258:B.2+2 3:98 .29A ?9 ' 52 <:9E 253 < 8
+2 8:4 B B0 $- ' 3' A A0 < ' " N ' LL E2.' 95 5: ; ' 42
<2B8:552 :9 42 .=:82 <:9B .: ; <+4 ; 253 54 B2.3'
25 5&283 < B2 + 9A . @:+2B 28 4:53 2+2 H+ ' 49.=2882
42 :9BJ:J521 893 G 25343 258:B.2+2B # ; 2 42 ! 5*
325:50 *8 # 0 " 0 NN' H# ' 2 ; ; 21 &243 <: 53
@:940 5&243 < 8 ; 54 ; ' =3 ; $20 ' 4&95 ; 3 4 3
; B?9 8 258:B.2+4 ; ' +20 ' - ' ?9W '
' ; 0 N' LL 6 &258:B22+2B0 E' ' c3B2 . <3 E4
< B' &258:B.2+2B 4&2BB29B8 23 42 E 8 :58
- ' # 0 A 96 8' : 520 3* +0 2=:9 H.21 ?92 4: 3
H?92 8 J5 2 .2+ 10 $92 8' < B:+28 H39 < B 28 58 I
.253B2 4B: 3^ =B283 25 ; :53 258:B.2B42P B 39
28 3:932 53:8 ; 420 328 428 # ' ; 8' 42 :BG'
.= S0 .: + ' N" #0/((' O I 8' &25 52 <253
; 29+A 258:B.2+2B 95 = : ; ; 2 ?92 42 +9R B2 8:5
<+ 8 B0 A ` ' C' LLAE 6 8' :98 8&258:B.2+2:3
4&2BB29B8 23 B28E2B 28 ?9 ' +28 ; 25253 ' .:5 98 :50
7 9' $ ' B R
- ' (! ' > D ' 23 +2 B 4 . + 42 ' QE:R' .2
; :3/' ' :B ; 2 + ' <+98 .:BB2.32 283+ ' <+98 5. 2992P
*
0 3> ' Q 5*8:B*82*+29B6 +24*M&/0
8' ' 23 ' 2+9 0 .2+2 ?9 ' 258:B.2+2 LL & 6 28
4:9A << 8 258:B.2+29B80 9 ' 0 ' 4 58 I
- ' (! ' > *
! ' Q 5*8:B*84* 2* ; 5/0 8' '
' 6 .3 :5 4&258:B.2+2BP B489+3 3 42 .2332 .3 :5'
+ F' J' 88 :5 :9 <B4@9J4 52A<+ . G+20 E29J+2'
:5 ; :9B <:9B .2332 2 ; ; 2 283 95 E4B 3 G+2 258:B*
.2+2 ; 253' :98 8: ; ; 28 :B248 42 B2. :55 +3B2 ?92
.:3 33 . 2 ; 2534:53 5:98 5:98 8:58 952 < 88 :50
5&283 ?9&952 8. 5 3 :5 4&28<B 30 ?9&95 258:B.2+2*
; 253 42 .:29B0 ?9&952 8:9B.2 4&4J B2 ; 2538 4 58
5:3B2 .:549 320 ' 0 , * ' ' '
H ' 3 < B 952 28<422 4&258:B.2+2 ; 2 3 .2332 E *
5 34 E:98 .= B ; 20 .2332 E 5 34 E:98 253B +52 ' " '
0 ' 0 < ' " ' >2 4 8 8 9 4J253 428B 8:58
4:53 + 8253 3 3:932 + ' :B.20 ; 38 8:5 258:B.2+2*
; 253 4* ! " & GG4 9G: 8 43 3 25. :B2 <+98 :B30 !
8 / , H' " NC0 %
- ' O I 8' >2 52 .B:R ; 2?9& + 8: 3 93B2 25*
8:B.2+2 ; 253 ?92 42 G 25 B20 A ' ' C'
' O I 8' 2 G 25 <9G+ .' 283: 3 +2 .= B ; 2 23 258:B.2+*
+2 ; 253 ?9 ' G:98.=: 3 &:B2 +2 ' 5:8 <B242.28829B8'
' A ' <' N
- ' (! ' > *
! - 8F , ' ' Q 5*8:9* B40 B42/0 < B30 " '
2 ; <+ ' 42 8:9 B2' ' < B ; ' .28 2A= + 8:58 + R 25 '
?9 ' 8:53 JB 8828 23 258:9 B428 .' 434:B' C' 28
3 9B2 9A 42 9+. 5 +28 J:BJ28 258:9 B4280 '
A ' F' :9E253 49 3B 832 4.+ 3 4&952 + ; ; 2
258:9 B42 ' :B43 283 : :9E2B32 23 5:5 < 8 44E:B420
' 0 ' ; ' 28 .=2 ; 828 258:9 B428 49 8 53
: .2 8:53 &43254 B4 .253B2 +2?92+ +28 <B:3283 538
8:53 ' @ ; 8 B49: 80 ' A , ' W
' Q 5*8:9* B4/0 W' ' 549 B2 42 8:9K
B2P ; <B4J52B 42 + ' E <29B 49 8:9 B2
- ' # ' S 6 8' ! ' B2< 2B 52 <923 258:9 B2B
+ 5J20 = / ' ' ' 7N' 28 928 25 8953 258:9K
B4280 252GB298280 ; + 8 B:B4280 ' < ' N "C'
' O I 8' ! 53 JB:8 3:552BB2 258:9 B4 8&28.+ 3: 30
' N F
- ' (! ' / 0 23 ,

%' = ' DO/@(*!@$'*-'E' I ' + ' -"!'044 '
' "-& 4*! " ":4*(" " ! /* 2 ; *(" ' &0 .04"! "#" (*!$' "
' ' Q 5*8:9*<+&/0 ' ' 2B ; 2 42 3 882B 54'
:9+2 9 42 G: 8 89B +2?92+ :5' ; :532 + ' .= 3520 *
<:9B B2 3: +2 ' LL 58:9<+2428GB:429B80 ; .= 52
.: ; <:842 42 + 3328 3B E2B8 5 ' 428 .: \ ; 528 42 G: 8
23 89B + ?92+2 +28 GB:429B8 3B E +253
- ' # ' O I F' 52 JB 542 =:B82 B:9+ 532 .: ; *
<4842 42 429A .R+ 54B28 :9 B:9+2 9A0 .= .95 42 + '
JB:8829B 42 &2589G 2 42 3 882B 540 :' ' D%
- ' (! ' e + :50 - 73 B.9.= 0 - 7 3 28< J5'
- B7 !3 = 8*+ 3' - 7 7 3' 49 + 3 5 589G9+9 ; 0
258:9<+20 42 350 2=0 23 89G9+ 0 +452
3' ' Q 5*8:9*<+4/0 8' ; ' :9+2 9 :<*
<:84 ' &258:9<+2 89B +2?92+ + ' 3: +20 +2' 4B < 8:53
B:9+48 ' ; 289B2 ? :& +8 :53 434 3 8898
' ' ; 593 ' 4&258:9<+2
' (! ' Q 5*8: * ; 5/0 8' ; * G3 :5 4&25*
8:R2B
3' & ' Q 5*8:* 4/0W ' ' 2B ; 2 42 .:B4 :55 2B'
B5 B 40952 8: 2 4 ' .: .=:5 +2 + <:9B .:94B2 + '
82 ; 2+2 4&95 8:9+ 2B
- ' # ' S 6 8' 58:R2B0 ; 233B2 8:R42 42 <:B2
: : ; ; 2 25 + J529+0 ' 7 ' 5823 B2
- ' (! ' 5 60 23 8: 2
3' ' Q 5*89*G &/0 ' ' :R'
' ' Q 5*89*\ B4/0 5' ' :5 B2 4 58 49
89.B2
' 6 ' AE 6 8' 2+ ' 42<254 42 &= G +234 42 B23 *
B2B + ' .:5 39B2 49 89.B2 =:B8 42 ' G 88 520 52 4:5*
5 53 +: 8 B ' B9 3 42 8&2589.B2B < B 3B:<0 : ' ' :
' BA
- ' O&$ ' 5' 0 23 7(#
' ' Q 5*89 * 2/0E' ' B5 B 42 89 P 25K
49 B2 42 89
- ' (! ' 5' "0 23 7
' ' Q 5*89 * /0 "5' LL 6 ' + ' 89 32 420 <B48
.2+ ' B E 2M 4& G:B40 E:98 E:98 B2<:82B2M 25*
8: 32' :9A ?9 ' E 253 4& G:B4 434 .:BB: ; <98 < B
+29B8 B .G28828 +2' 9B253 2589 32 < B +29B < 9EB2340
! ' : ; ' 3:' 6 589 32 420 ! (' # ! ' '
+ ' 89 32 420 <B48' 589 3242 ?9: 0 <B48 ?9: ' 5K
89 32 49 B: ; 5 ?92 @& E 8 E9 4 58 ' G G+ :3=4?98
3 . 52' + R' ' 25.:B2 95 .: ; ; 253 B2 4&95 9329B
JB2.0 I' ' D # ! - ' 589 32 42 .2+ 0 + ; & '
E:94 ?9& + E 3 25+2E4 9520 .: ; 44 2552 4:53 +
E 3 434 3:932 8 E 2 ; :9B29A0 ' . ! ' (! '
0 ' &283 952 84B 2 4&= : ; 280 49B 53 ?9 3B2
; +2 580 ?9 0 .:583 ; ; 253 23 8 58 E B 3 :50
E 255253 &95 2589 32 42 & 93B2 <B44 B2 .2 ; 4 ; 2
R452 ; 2930 ' 0 - ' 0 B3' A ' + 93 98 5& *
E 3 J B42 42+ 882B +28 .:5 28829B8 4 58 .2332<2 52P
.&283 <:9B?9: 0 2589 32 42 .28 < B:+280 + +29B 4:55 '
.2332 ; 43=:42 . +2 <:9B 25 8:B3 B0 ' 0#! 5' + : '
589 3242 .2332 G2+2B4 +2A :50 8 E' 3M8' ' <2BK
.2<3 :5 ?9 ' 8:' 3 29 5:3B2 ; 2 ' + ' <B4825.2 428
.:B<8 23 2589 32 42 & ; <B288 :5 ?9& 8 :53 89B +28
:BJ 528 4:' 5:8 82580 ' 1! - - ' ' 30 &28325K
89 32 42 + ' ; :B3 49 =B 83 ?92 .2 .= 5J2 ; 253 283
; B?940 ' K ' 90 "0 2 ?92+2 8:B32 8 283 :B ; 4
3&43 3 <:<9+ B2 2589 32 428 .: ; ; 25.2 2538 ?9& *
E 30 ' K ' 50 C
- ' ! ' 28 JB ; ; B 258 53 B2<:9884 + ' +:.9*
3Q ' - 7 " ' (! ' E 2 + 2 23 =:B8 4&98 J2P 8*
: 40 :889230 ! ; 2 42 4E J54 8&29 82BE253 .:9B ; *
; 2530 23 B 25 5&2 ; <42G2 42 +28 ; 32B
- ' (! ' 5 30 23 7
' Q 5*89 *E 5/0 " ; ' ' 2B ; 2 42 <B K
3 ?92' 9 E 53' 2 4 ; 5.=2 2589 E 53' 2 + ' 23 <29
98 34' ' ' :53 52 8&25 283 8254 4 58 +2 + 5J J2
J45' +' ' +2 @:9B 2589 E 530 8 93
8 ; ' &/Q 5*89 *EB&/0W' # ' 52 82.:5@9J92
?9& ' + ' 6 <2B8:5 2 49 8 5J9+ 2B :9 49 <+9B 2+ ' 33
8&2589 3P + 8&2589 E 3P + 8&2589 E 3P + 8&2589 EB
+ 8&2589 EB 3P ?9& + 8&2589 E2P ?9& + 8&2589 E33P 23
E2.' & 9A + B:0 + 8&283 2589 E ' LL ' 25 B <B48
' .+ 982 B2+ 342 94 3 B3 .+2 23 3:93 .2 ?9 ' 8&25K
89 3' ' 6 9BE29 B .: ; ; 2 2 230 44.:9+2B .: ; ; 2
.:584?925.2' 5 52 E:9+93 < 8 ?9 332B +28 B ; 28
?92 B2 23 52 8&25 3 2589 E 0 ; ' C ' 0 + E'
50 <' ' 7C0 4 58 ' ' J94B 8:5 ?9 ' 8&2=' 283
2589 E 20 6 ' @! &! - ' 5' ' " ' : 80 8' ; :5 .89B
5&2 3 9 42 B: 429B 82 ; 95 B0 U7 ' 5.:5E45 2538
9B 253 <9 8&25 2589 EB2+ ' ? & ' / ' ' LL ; *
<2B8:552 2 ; 2530 25 .2 8258' : ; ; 2 952 2A.2<3 :5
52 <293 43B2 988 ' 4+29492 ?92 " ' B4J+20 + 8&2589 3
54.288 B2 ; = = ' 92 .2332 ; A ; ' J454B 2 '
. A ' " ' ' # ' 4' + ' " 6 #! ' &: + + 8&2589 3
?9&:5 <293 25 8 B234 42 .:58. 25.2 89 EB2 4 58 + '
<B 3 ?92 +28 :< 5 :58 <B:G G+28 4 58+ ' 8<4.9+ 3 :50
7G' ' " 0 $9W 8&2589 3* + 42 3:93 .2+ W582 ; 20
8 5: ' ' ' 8&2=' 283 2589 E' 95 .= 5J2 ; 253
4<:9E 5 G+20 ' 50 ! - ' " ' 2 ' ; 4 ; 2

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4*! */(' &!"/' -%!07-/"' #-(%-/ %"+"/%' !/"' %e%" #"
&-*/' "/%#"(!"&"' 2*'4('#!!/"2 .'"'(0/(',!!-&'$0-&&"
2*/2&! '4*!"2"&0',!!-&'8'0-%' 0!' +*/#"!/" 26-@
9 ' (2' A ' 'B' Q$0&&0-%' Q!" 2" /*!."0!'
4"!4&"' $#%' "/%H'(!"&"'4'"+-"' ' # ' ! ' A' "
(*/%' +*'2"0!:'#" '*26"'(' f/%#('&"('!/('(!"&"('0!^
%"'(' %' ,!-'$*/%'#-'"'0!:'2*26"' ' "%"'-C"('40%"
/$-%"(' ' '= '&' ' '&X'("4%'&"('
" .-(07" #1 %6-*4-"//"'"/%H(!"!/'2*'4('#" '"*@
,!" ("+;&0-%' ,!"&,!" 26*("'#" $*'%' %'0/7"' "
0 4* ' ' ' ' 0//"'"/%H"' 20//"'2*+4*(&"'#"
4&!(-"!'('4-"2"('"+6*&%#('&"('!/"('#0/('&"('0!%"('
N d' '(" #-%'0!((-'#"('26*("(',!-'/"'4"!."/%' ,!"
+H%04;*'-,!"+"/%'#%"'(!44*("('!/-(' '"/%H"(' '
0' !/' *-7!"--' "/%#'(!"' !/"' %'a(@7'0/#"'#-7/-%#'
#?+"' /'(*/7"'(!"&"' ,!"&' &"(' 0!%"('(*/%' "/%#('
'2 , ' R' 0'4"'(*6;0&-%M' 6!+0-/"'0' #%#'
"*++"' "/S-"'(!"&0'4"'(*//0&-%#'#!'.'"';"' '0 /'
? */%;'*/' 21"(%@6@#-'" (%+' 4#'" ,!-'&!-'(!'.#2!%'
' 0' '"&-7-*/' ("!&"' $0-%' ,!"&,!"$*-('#"(' 2*/.'"K
(-*/('(!'4'"/0/%"("%'#"('260/7"+"/%('+-'02!&"!:5'
+0-("&&"' /" $0-%'7!6'" %*!%'" !/" .-" -70&" "%'%+-"
$*'+"' (-' " " /1"(%' /' " (!" !/' /0%!'"T' 46-&*(*@
46-,!"' ' #"(' ' ' NN "%%" +0-(*/' "(%'
"/%#"' (!" %"&&" 0!%'"' ' "&&" "6' 0' 4'-(' &" /*+'
1"(%' U?*/-;'*/Z &"' #"'/-"' #" 2"('$0!:' "/%e' (!"
?*/%;'*/' 21"(%@6@#-'" (%+' 4#'" ,!-'&!-'(!'.#2!%'
@(- 'Y'YR)' /'7'0/#'/*+'(!"&",!"&'*/'"(%'"/%#'
"%' ,!!*/' /"' %-"/%'40(' #" ("('0/2#%'"(' '0 '
' C1 ,* ' N Md' ' " #-%'#!4/" 4"'(*//" 40"
'044*'%' e' ("('#-."'("(' ,!0&-%&(' 1"(%' !/' $-/0/2-"'
' "/%#'(!"!/'4'0%-2-"/
\' 'DO/@%#"E'I' ' , ' "'+"'#" .%O"'-"'
!+""('#"2"'$'*!'#"' 6-2C' ,!-'(*/%' '#!/-"('#"!:'
6'#"!: ' %"/"+"/%' ,!!*/' /"' 4"!%'&"('(#40'"(0/('-"('
'*+4'"
'$- ?' >
%'#H&# #, / #'DO/@% '& @26-"E'I' ' "'+"'#"'+#@
%0468(-,!"'NN F' 0/('&"' [/707"'#1 '-(%*%"',!-' "(%'
&" 2'#0%"!" #!' +*%' &0' $*'2" 40" &0,!"&&" !/' *;9"%'
40(("'#!!/' 4'"+-"'#%O%' -' !/' ("2*/#' #"2" ,!!-&'
/1"%0-%' 40(' "/2*'" 6'2",1-&' ("%5'$*'2"'2*/(-# '#"
40"'044*'%'0!';!%'0!,!"&'"&&"'%"/#' 1 +"'"(%' 1"/@
%#&#26-"'4'"+-#'"'#!!/'2*'4(' /O%'!"T'#*!#'#1*'70@
/"("%'080/%'&0' .-"'"/4!-((0/2"' ' ! '$ '
/ ' 'j'M' '8'2*/2".0-%'U#O/('&0' +0%-#'"J!/" 2"'@
%0-/"' $*'2",!-'/1"(%'4&!('!/"' (-+4&"'7'0/#"!"' 7#*@
+#%'-,!"5' 21"(%' &0'$0+ ! " "' *C!*' "/%#&#26-"
#1 '-(%*%"' #*/%'&"(' ("2*&0(%-,!"('"%' $0-%'&"('$*'+"(
(!;(%0/%-"-&"(' "%' % !%" (!;(%0/2"'0' !/" $*'+"'(@
&*/'(0'/0%!'" ' 1 7' 1 +"'"(%' !/"'@
%#&#26-"'21"(%@6@#-'"0!%0/%' ,!!*/' 4"/%'2*/'9"2%!'" '
&" 4'-/2-4"0%-%'#"' %*!%' 2 H'("4'*#!&%' "/'/*!('
' ' ' &&%'-/ ' 265 S' N O ' 8/*@
/8+"#"'+*/0#"'#0/('&"(8H+"'#" "-;/-%<' '
U "-;/-%<J #*//0-%'&"'/*+'#"'+*/0#"('*!' #1"/%#&#@
26-"(' 0!:' (!;(%0/2"(' X+4&"(' ;*'/#"('0!:' ("!&"('
4"'2"4%-*/(' "%' -&'#("'.0-%'2"&!'_'#1 -+"0!:'!;(%0/K
2"('(-+4&"('#*!#"('#"'4"'2"4%-*/"'#" 2*/(2-"2"
' %%2'"(' '%' O /-@'4G) '/*%"'R'#0/('
' V
'$- ?' -. -%' 026"."D#"-.
"/ ' "%.eMP'$-/E' "%&:0g'0.*-'
%' ? 'DO/@%"@+0/E' ' ' 2%-*/'#1"!%"'
! ' '$&*' '%)M
'O I(' "('0';"('40" '"-%"'#('"/%"+"/%('
40'.-"//"/%' '2"%%"4"'$"2%-*/'4' " ' '2-*
``` > 9
%' ' ' $0/@%0/@#0/' #0/@$E'
K' Q!-' "/%"/#' 0+"/"' #"(' #%"(',!"&0' /O%!'"'
("+;&0-%'0.*-'2*/#0+/#('06'(-&"/2"' ' 1#%O%' #1"/@
$0/%("/%"/#0/%(' "%' 40'&0/%(' &0 "'#0/('&"' !
? &$"DO/@%0/@#"@+0/E'0'+'NN d' 1"(@
4'-%2*/(-##'#"/'%0/%' ,!!-&'2*/2"-%' *%'" -+07-/0K
%-*/'/-'/*(' ("(/"/%'/*!(' (0!'0-"0%'90+0-(0('(("!!'
#!0!2!/"26*("'(-'/*%'"' "/%"0#"%'/"/%'/18'-/%"'."/%'
' ' ' ' 1#/%"/#"+"/%' "(%' &0' &!+-#"'
,!" -"!' /*!('0'#*//"'4*!"';**('2*/#!-"' '
' - 'A' /" 2'"%0-/' ."%!' ,!-' 204%-."&"('
"/%"/#"+"/%(' "'0 ' ' A '0 ,' 044" "'
&0'$02!&%#'*!'&0'20402-%#',!!0' 1-+"#"'"2".*-"#-$@
$#"'"/%"(-##"(' "%' #-$$#' "/%H' +*#-$-20%-*/(' "/%"/@
#"+"/%' ' < * ' -'-' %' 1"(%' #"+"-/(
#0/(' "/%"/#"+"/%' ,!" #0/('&0' .*&*/%#' "%'&"("4"/K
260/%("(2"'"%(',!!-&' $0!%' 26"'2;"'&0'(#"'!'2"'#" /*('
4"-/"('6 'C" ' ' ' ' :9 ' , 5'
"*++" 1*'"-&&" "/%"/#!&"((*/(' 1$-+" "/%"/#'&"('
-##"('"%'*/'#-%' 1"/%"/#"+"/%'#"' 1 +" ' "
2 0 * ' ' ' 0'%'0@ 1"/%"/#"@
+"/%'/1"(%' ,!"&0'2*&&"2%-*/'*!'&0'2*+;-0-*/%"0!'
*4#'0%-*/('#"' 1 +" ' '*' ' , '("2%-*/' I'
26'B' ' */'"(4'-%'9!7"+"/%' "/(' 1"(%' -+'
6*+/-"#1"/%"/#"+"/%' '$0!%'0.*-"4"#!' 1"/%"/@

42;253'<:9B'8'9 .:;<:B32B' 58 ' !:5'2532542;253
2'<253'8& ; J 2B'?92+2' ;:9B'32'48<:82' '5:98
E:B82B0 ' ' ' &: 82 9'.= 8829B'+9' 4 3'H 9'
.= <:5I' '3:5' <29' 4&2532542;253' !2' B254' 3:93
43:554P E:98' 5&4328' ?92' B . ++20 ' ' -
0
-'# 0A56'8' 53'H?9 54I'< B' & E252;253' 42+
53' 8< B'E 253'2+* '42' .= 8.95'42'5:8'H5:98I'
8 E: B8'23'2532542;25M0 .:582+M'23 :B.2'08.25.2'23
< 232 M0'>:G0'<'"7%' 952' ' ;2'2532542;2530 ?92'
@2'8 .2'+28'392583283 ;:528'H32834;: J5 J28I0= 1 '
" '<' 7 ' S 6 8' :B'.20'E:98' 93B2' :; 20 52'
E:9++2M' ; 2' 283B2' 3'8' .: ; ;2' .=2E 98'23 ;9+8' '
.9'2532542;25M 5&283 ; 20 0 , '0 7' 25'
4:3'283B2' ; 48'23 <B 8 48' +48 H@2952*=: ; ;2I' 42'
5:G+2'2532542;2530 $9 54' +'25' 982'8 J2;2530 '
< ' F N7' 3 <2B' 2B2' <+98' .+2B' 2532542;253'25'
:283 . 80'23'<:B' ; :583B2B+2' <2B+'?9'283'25' ; 52"
. 2B0'5:M B2.:B42B:58'95' @9J2 ;253'?92 '
4:3'283B2' ; 48 23 <B8 48' +48 H@2952*=: ; ;2I' 42'
SSS S0 :9328+28' : 8'?92'< B:+28'8:53'4 328I'+28"
?92+28' < B:+28' :53' <+98:B8' 2532542;2580 :5' 4: 3'
<25B2'+' ;2 ++:B'2532542;253'<:B .2+'?9'+2'H+ I'< K
B:+2'4 830 'S 0 " ' 'S 6 8' = 8.95'?9'283'B "
8:55 G+2'23 0 G:5'2532542;2530 ' > ' B'
'<+98'5:G+2'.=:82'?9'8: 3'25'5:98'23'25'+ ?92++2'
5:98'< 88: 8328G283280 2&283 2 '2532542;253'23'25'
B 8:50 - G' .'IL AE6'8' 3'283:3'JB 54'<34' '
J258' 4&2532542;253' 42' E2: B'+28' .=:828' 25' &283 3
?9&2++28' 283:2530 9 ' ' A ' 3
+9R' E: 3 29' 3B:9G+4' +2' 8258' 23 &2532542;2530
??' BE0 ' 2'32;<8'?9& + H :98'S IB2<:8: 30'8:5'
2532542;253'3B ++: 30'5'E 0 'IL AE 6'8' 8'8:53
42A3B284&2532542;25323;2BB2++2982;253'<B:;<38'
23'4+J25380 '$ 'N
X'$- ?' > '<B:E25.' ' .3+'
' ' ' / '

! 'Q 5*3 5*429B/0 ' ' 2+9' ?9'25K
3254'23' .:;<B254'>2' .B: 8'?92'+28'G:58'25325429B8'
<:9BB:53'<B: +2B' '.2332'+2.39B20'9 ' ' '&' '
' C' ; B8' CN%'IL '82'4 389B3:93'25' .28'429A'
+:.93:58' ' 'G:5'25325429B'8 +930 .&2836 *4 B2'.2+9'
?9'.:;<B254'.2'?9&:5'4'3'4:3'25' +B2'8:5'<B: 3P '
G:5'25325429B' <29'42'< B:+280 :9'42; *; :30'2&283"
*4 B2'952'+:5J92'2A<+ . 3:5'283' 593+2' ' 5'G: ; ;2'
532++J253' IL 'G:5'25325429B'8 530 < B 3 8+J5 "
2B' ' 2+9'?9'.:;<B254'G 25'82'8 9E20 3B:9E2'8:5'
8 +930 8:5'<B: 3
-'# 'S 6 8' '<<B258'4:52' 'G 2 '253254B2'
:9B'?9:R'39'52'<9 8828B2<B254B2' 28'+EB28'52'+28'
G:58' .329B80 28J92+M 8:53'< B .38'25325429B80
' 'N '>& R' B2' '95'25325429B0 0 '
' S 6 8' 'G:5'25325429B' '52' 93'?9&95' ;:30
( ' 2 " '<' FC
-' (!'> ' 5'3B:9E2' 988' '
A 5& 8' 3 .2'8:9 82' 'G:5'253254 530 D ' '
' '-' ' 'AA50 C C
'Q 5*3 5*4B&/0 @&25325480 39'25325480
+'2532540 5:98'253254:580 E:98'2532542M0 +8'25"
3254253P @&253254 8P @&253254 8P @&253254B P @&25"
3254B 8P 253254 8P ?92@&2532542P ?92 @&253254 882P
253254 53P 2532549'IL 6 9' ' 3R ; :D+:J ?92;2530
3254B2' E2B80 4&:=0 E: B' 53253:50 42882 50 E2.'
95'E2BG2' ' & 5 5 3 0 :9' +, '23'+2' E2BG2' 9'89G"
@:5.3 ' :9' ?92+?92:8 9' .:54 3:552+' >&39'3:9"
@:9B8'2532549'?92' & .32'82B 3'25B2J 83B4'>& 532548'
?9&:5' ;D:G 882'23'?9&:5'5&:G 882'?9& ' ; : ' >&25"
32548' 3B2' :G ' 5'4 8 53' .2+'@&2532548'< B+2B' 42'
+9 0 5:5' 42' E:98'>&2532548'?9& E2.' ; .:9B'3:932'
+'E+2'25'429+ : ; 5'B2542' 9'42B5'2B' 3 :.+2I'
+28'G:5529B8'49.2B.92+0 '& ' E0 + ' :50
8& + E:98'<+ 30 @2'5&2532548'< 8'?92'E:98' 88'2M 42'
4 <25820'23'?92' E:98'25E:R 2M B 2G' .G232B*<:9B'
; : 0 ? ' ' 0 ! ' '5:98' 93'3:5' ; :9+ 5P
?92'E29A*39' ?9&:5' 3&25'4:552^ -' 25'49'3:93P . B'
@&2532548'52'+2' E254B2' '<B:552 - ) ,1 ' !
' IL E2.'+2' ; :3 54 32B; 52' ' / 82' <B254'
23 E2;253'>2' &2532548' 580 2&283* *4 B2'@2'E49A'
?92'+ '2G:82' 8:3'G 58' 328' . ; ;2' E:98'&25"
3254B2M' = .95' 3 .: ; ;2' + &2532540 '!2B.9B2'
G 3 .: ; ;2' + &2532540 ' 52'E: 8'283'<8'8'5 .28"
8 B2'?92' ; : 0 - ' & , ' A ' # 0
C' + : ; ;2530 &2532542M+E:98'2&283*4B2'?92++2'
283' :3B2'53253:5^ : ;253'0253254 ;:58 29B ;:5'
= 32^ 3*2+20'23'42'?92+4B: 3 ;2 4:552B' .: ; ;2 +
3^ ' ' - * 'IL 0 3B2' ::9< 5' '
5&253254 3 <+98' 93B2' .=:82'?9& ' B2'3:932'+ '
4+J25.2'<:88 G+2' 2'.2332' ' :5' R 53 ' B2'25'
429A'+29A0'23'52' <:9E 53 < 8 253254B2' < B3:930
+'25'42;29B'952'< B32'89B'+'<+ .20 & 93B2@23 '
828' B;28'23' 8&25 9 30 6 6' = ' SAA +6 '
9'= / ' .G'7' 2332' 2 ; ;2' 5&253254' , !!'4:552B'
428' E <29 80 6 '2 , / ' 0' 'IL(2++

25'.2'8258' IL 6' 53254B2' 0 ::B8253 B0 .?9 28.2B'
++2'52'E253'253254B2' '59++2'<B:<:8 3:50 9'JEQ'
28'B 8:58'?9& +' '42'52'< 8'253254B2' '+'42 ; 542 '
$ ' ' " #' ' 54 8'?9& + E:98'B283 3 ?92+?92' 28<"
B 5.2'42'E 20 E 2M*E:98'E:9+9'253254B2' ' <<2+2B'
+2' ; 5 83B2'42'> 898* G 83^ '1 # ' - ' -
' ; B .G +2'42' :BJ2' ; 3 3B:<'8 ' ++2'<:9B'25K
3254B2' '95' ; B J2' ?9'52'+ '<:9E 3 B254B2'=29"
B29820 ' B 'A '>2'8 E 8 G 25'=7 ' ; :5' #:+"
+ 54 8' 5&253254B 3 ' 9.952' <B:<:8 3 :50 '
+ '0#7 'B' 28' .:54 3:58'< B9B253'8'49B28' 9A'
B :B ; 8 ?9& +8' 52'E:9+9B253'<: 53 F'253254B20 '
Q ' + /7 ' ' Y E' 28 958'4 8253'?92 @& ' G 25'
3 4&253254B2' ' 95' BB 5J2;2530 <0 ! ' ' 50'
N' "6 , ' ' B J2B'8:5' :B2+2'E2B80 4&: + B2.2E: B'
& ;<B288 :5' 428'8:58' 53254B2' 49'GB9 3'>&2532548'
< B+2B' 4 58'+ '.= ;GB2' '243 '>&2532548' ?92' E:98'
;2' 4 328' 428'5:9E2 28' 5' 5&253254'< 8'3:9@:9B8'.2'
?9&:5' .B: 3 G 25'253254B20 '0 #& #' 50' '
253254' BB E2B'95' :BB:88208 E' ""'>&2532548'4 @ '
< B3:93+28' .= BB23328'.:9B B0 28' ; ::58'3B E ++2B0
+28'G:93'?928' 8&:9EB B0 " :3' E' 2 .2+'4 58'
3:98' +29B8' <+29B8' 52' ;&253254' < 8 5: ; ;2B0 '
B 3' ' Y' >&2532548' ?92' E:98' ; &: B2M 95'5:9E2 9'
4 4G ;20 5'D # - ' 0' " ' IL + 82' 3 3 53'42'GB9 3
? :5'5&253254B 3 < 8 29' 3:552B0 82' 4 3 4&9:'
3BG8*JB 54' GB9 3'IL 53254B2' 4 B20 <<B254B2'< B+'
< B:+20 < B' .2' ?9' 82' 4 3' >& '2:32549' 4 B2' .2332'
5:9E2+2' 5' 253254' 4 B2' 4 58'+ 'E+2'?9&+'R' '29'
95' 5.254 2' ' 5:9E2+2' ?92' @& ' 2532549' 4 B2'
' 53254B2'< B+2B' 4&9B 2 .=:820 25' 3B2' 5 :B;8'<B'
+'< B:+2'IL 53254B2' < B+2B0 8 J5 2' 988' E: B'4 58'
& 4 2' $9 54'@2'4 8 5 39B20 @&2532548'< B+2B'42
2' < 8 E?9+: B' 253254B2' < B+2B' 4&952 .=:820 +'
B2@232B' G8:+9;253'8 58'E:9+: B' ; ;2'R'<B 32B' D:"
B2 +2' + 5&25' E:9+93@ ; 8 253254B2' < B+2B0 '
9 ' ' B2' 253254B20 B2' < BE25 B' ' &:9 2'
58' .23' :9G+'<B: :54' 23'42' 29' 23' 4&2+2*; ; 2'
: + & ; 2 8& 3 3' <+:5J 20 .2' JB 54' 29' 8 + G 25'+'
3B:9E2B P 3'253254B2'8'E: A0 ?9 54' + +9' <+ 30
9' ; +29'49'GB9 3'49' ; :5420 ' 9 '
8 58' 3B:<'E:98'4 <+ B20 '>&:8 8'E:98' B2'25K
3254B2'952'3 ; 42'E: A0 " ' ' 6 7' E0 ' 52'E: A'
; 2' 3 253254B2' .28 < B:+280 ' 9 ' IL 2 B2'
253254B20 3B2' :9 ' 52'E: A' 82' 3 253254B2' 9'
; +29'42' .2'3 < J2'@2'52'<:9E 8 ; 2' B2'253254B2'
! 8 +2'5: ; ' 42' B?9'5' E 253' 42' 82' B2' 25325K
4B20 ' ' , ' 'C' ' B2' 4 3' 42' ; 5 B2' '
3B2'2: ;<B 8' :8' :B4B28'8 58'4 3:9B'<:9E 253'82'
GB2'253254B20 '$" ' E0 ' IL 2 B2'25325K
4B2' 0 < B+2B ' ! 8'+ 'J+: B20 ; 4 ;20 2'8& 3 3
<: 53'25.:B 3 253254B2' ; :5' .:29B0 '
0 % / G8:+9;2530 253254B20 E: B' &:9+2' B+2M
<+98'= 930 + 5&253254'< 8' IL 53254B2' 49B0'253254B2'
+ B0 E: B' &:B2+2' 49B20 52' IL J' &253254B2'
?92'< B0 3B2'95 ?92;253'4 B J '< B' B 89852'E: 30
5&2532540 5& J 3 ?9 '< B'E:98*; ;20 '
- 5 ' &> " ' E0 %'LL J' + 5&253254'< 842' .2332'
:B2 ++2*+ 0 +52' E293'< 8 ::932B'+'<B:<:8 3:5'?9&:5'
+9 ' 3' % ' B 32B' &:B2+2' $9:' .29A' ?9 ' ; &25"
3254253 ; 2'@9J253' +283'G:5'4&253254B2'+28' 429A'
< B3 28' ' :5'42'5:98'253254B20 +8'42 ; 54253'+'
< A' 23 < B+253' 42' 82' B254B20 ' ' '3E0 '
93*+2' ::54 ;52B' E 53'?92'42' &253254B2'^ ; '
$" ' 'N' 5'E: 3 4 58' B J: B2' 42' :9B8'?9&+8'
8 253'428' ;29B3B28' 42' 8 5J*B: 40 23' 8 253'
;:9B B'428' ..98 8'?9'5& E 253 829+2;253'< 8 3'
2532549B0 ( '> " 'AAA 0 ' IL 53254B2' 2'
.:5 288 :50 :90 8 ; <+2;2530 253254B20 82' 4 3 49'
<B 3B2' ?9' 253254' + ' .:5 288 :5' 4&95' < 5 3253'>2'
E29'G 25' E:98'253254B2' 4 58' &:.3 E2' 49' 3* .B26'
;2530 :88'= ' 'YR'IL 53254B2' + ' ;28820
+28'E <B280 +2' 82B ; :50 88 832B ' + ' ; 28820 9A'
E <B280 9' 82B ; :5' IL +2B' 253254B2' 952'< .20 95'
.329B0 95'<B 4 . 329B0 88 832B ' 952'< .20 9B +2'
4&95' .329B0 9' 82B; :5'4&95'<B 4 . 329B' IL 2B ; 2'
42'<B 3'?92' &253254B2' .:54 ; 52B0 :9+B'+2'<B:"
5:5. '49'@9J2;253'?9' .:54 ; 52P 2A<B288 :5' ?9'
82' 3B:9E2' 4 58+28' 88 J5 3 :58P 8&253254B2' .:54 ; K
52B0 .&283'253254B2' .:54 ; 52B'8: 'IL ' &253254B2'
2&283* *4 B2'8 :5' 5&25' .B: 30'8' :5'+9'<B 32' &:B2+2'
' &253254B2' + 5&283 < 8 .:9< G+2' 'E:98'253254K
4B20'+ 8& J B 3'42'?92+?92' .=:82'42' :B3'JB E2'IL GK
8:+9;253' 2' < 8'8 E: B' 9?92+ :9' ' ?9'253254B20
.&283* *4 B2' 52'< 8'8 E: B' '?9' :9' '?9:Z ++ ;<:B3 '
42' B2' 33253 :5' B ; '3 53'42 .B 8 4 B2:38:552'
8 3 9?92+'253254B20 'U'1' ' &=: ; ; 2'
52'8 3 4:52' '?9'253254B2P 8 'E:+:53 ' 283'+2'@:9 3
.:53 592+' 42' 4 E2B8 ; :3 8 :<<:8 8 ?9'82' 4 8<93253
+2' 4B: 3'42'+2' 4 32B; 52B0 ' > ,
" 6'.G' 0' 4 58' 'J>,/ ' ' '<'8 .'
' 5' 4 3 4 58+2' ; 2' 8258' 52' 8 E: B' '?9:'25K
3254B2' 2' 3RB 5'52'8 E 3 '?9:'253254B20 5'8B92+8
```

:B4B28 4:582B0 9':4' ' ++ 3 25W:R2B 49 882:9B80
8: 3 ' - '1<75# '3'E9 0<' 'N0489 8 '
' :<9+ B2;253' &253254B2 5' '=90 5'4 4 0 :9
5'44 0 \=9B 930 .&283*4*4 B2 52 B 25 253254B2 49
3:930 43B2 8:9B40 c3B2 G:9.+4'L0N cA 9.2B' 29 25*
3254 + 828 E:29A' 532542M ; '<B 4B2' LLC6 <<B254B2
< B + 'B25: ;542' ' &4.:932 8 58 R E:B 9.95 5*
34B43 5:3 G+20 23 < B 8 ;<+2 .9B :8 34 4& <<B254B2
.2 ?96 '<:9E 3 E:B 89 44@ '25 + ' .:9B 40 JR<+20
:4 + 43 3 25 882M G:552 <:8 3:5 <:9B 253254B2
428 5: E2+28 889B428 42 3:93 .2 ?9' 82 < 88 3
4 58 + ' RB 20 ' '"'.!"!/' E2M*E:98@ K
; 8 25+2549 952 E .3: B2 <+98 J+:B 2982^ ' 50
253' 3' F0 B J2B 8:5 28<B 30 4&:4 < B 2A3258 :50
.:;<B2 4B20 8 8 B +2 8258' 28 ;R83 B288 .B48 ?92
5:98 50253254:58 < 80 '0! ' E0 ' c3 < B 95
;:9E2 ;253 ?92 @2 52 <9 8 253254B20 2 ; ' 9B29B
@2 < 882 9 M2+2 42 ;:5 J254B20 - ' 'E0 N' >2
.:;;25.20 ; 4 ;20 25 5 ' E:98 253254B20 5'
' ! ' ;0 C' 328 ?90 +8 253254253 ; +> 5845 980
' 0#!5'38' '253254' :B3 52;253 3:93 .2 ?9'
283G:50 88E "N ' +85&253254253< 895' ;:3 42 B 5*
? 80 '822' '5:98 2532:4:58 49 !28832 .2 JB 54
< 88 J2 :4 8 2 5:98 B2<B48.532 8'E E2;253 &=: ; ;2
42 4:9+29B8 B <<4 <:9B 5:8 <4.=48 23 44 J9B4
.:;B 2 95 4<B29A0 ' K ' 90 3:' :98 50 9B2M
<:53 <:9B ; :'42 + 5J J28 82.B238 >&253254B '428
B2J B48 ?92 E:98 .B:B2M ;92380 '.# ' 0 '
>& J5:B2 42 8:5 .:29B +28 8253 ;2538 82.B238 ! 8
@2 ;&R 8:9;233B 8 8 58 E:9+:B B 25 <B43254B2' '
.:; ;2 E:98' 2 J529B0 @2 .B:R 8 +28 253254B20 5'
C #' 'F' :98 B48 832M 25 E 5 23 @&2532548 E:3B2
@ 320 ' ' ++0 %' :98 ;&2532 42M 882M 8 'E:98
E:9+2M ;&253254B20 - ' & / ' 0 N' 28 8:38 + 8253
95 + EB2 23 52 &253254253 <:53 +28 28<B 38 ;44 :*
.B28 .B:253 &25+254B2 < B 32 ;253 +28 JB 548 28K
<B 38 52 &253254253 ?923?92:8 < 8 ;38 :B3 253 2B0
' '>&283 ;2 G 25 < 98.29 '?9'52 .:;<B25*
0B253 < 8 .28 ;R834B28* '?92 .29A ?9'+28 .:;<B25*
5253 ; 8 ; +=29B2982;253 + ' 5 39B2 5& ' < 8 3
3:93 +2 ; :542 . < G+2 42 5&R B 25 253254B20
' 'A!# ' !"' 9 E:58 & E 8 42 $9 53 + 250 23
8:58 25 8:B32 5:5*829+2 ;253 ?9&:5 5:98 25325420
; 8 ?9&:5 52 <9 882 < 8 ;4;20 +2 E:9+43*:50 52
< 8 5:98 253254B20 - ' 9 . ' 7#' . (- '
)' N ' 9 <:9E 8 42 828 R29A 253254B2 +2 + 5J J20
'X # '+90 C' .32 283 +2 + EB2 428 E 2 + B480
+28 @29528 J258 528:53 < 8 38 <:9B &2;254B20 @'
;' :988' < 'BE' LL 53254B2 '42; *;:30 .:;<B25*
4B2 .2 ?9' 283 4 3 4&952 ?:5 ;R834B 29820 E:+420
Q' ++ <3 ?92 ;253' :98 E2M < B+4 4&952 <2B8:552 23
@& '2538549 952 93B20 .0283* *4 B2 @& ' .:;<B 8 ?90 +
8& J 88 3 4&952 93B20 &2830 ;:5 < B20 ?3 2 @2 .:5*
5 8 ?92 E:98 E2M < B+4 4&952 <2 8:552 23 ?92 @& '
2532549 952 93B20 ' K ' ' 0 %'LL :98 ;&25*
32542M G 250 .&283* *4 B2 E:98 8 E2M .2 ?92 @2 E29A
4 B2' :5=:;;20 .&283 .2 .:9<' ?9& + 930E:98;&25*
3 542M0 $9& + 93 :9 ++2B ' &28. B.2++20
+ ' '"' 38& + 4 3 ?9& + 5&25 2B 'B 250 $9& + ++2 '
E:98 ;&2532542M G 250 ' #/ ' E' LL ; + 4*
B2;253' 53254B2 & <:+:J920 .:;<B254B2 .2 4:53
+ 8& J 3' ' 2B ;2 42 ; 54J2' 53254B2 G 25 +28
@ ;G280 +28 3 +:580 82 4 3 49 .G2E + ?9' 82 ;G+2 25K
3254B2 .2 ?92 +2 . E + 2B +9' 42; 542' LL :5*
52B ' 253254B20 + 882B 253254B20 @.2 253254B20
58 592B0 B2 .:;<B254B2 952 .=:82' + ;0'
4:554 '253254B2 ?92 E:98 ;2 G+ ; 2M'>2 52 8 8
80 82 J529B0 .2 ?9&:5 E:98 3 253254B20 '
,& !"!# 0 E0 ' ' ;:G 25 43 3* + ;<:B3 53 42
@=B2 253254B2 ?9' E:98 4 28 ' ' 0#!5' 38' >2
E29A 829+2 ;253 E:98 25 B2 =:BB29B L42 E:3B2 ; K
+ .2I' 0 'E:98*;4;280 23 B2 253254B2 '3:93 +2
;:542 ?90 <B48 .2+ ' + 5&R 'B 25 4:53 E:98 52 8:R2M
2 < G+280 - ' '32' 3 52 42E 8*@2 < 80 ?9:'?9& +
;2 3 253254B20 4543B2B +28 B 8:58 ?9' E:98 +
8 253 33254B2 Q' & / ' & ' 0 Y' 3 .2
+8 8' 44+2 ' 44 E:98 B2 253254B2 $920 428
;4;28 B429B '448 +:5J32 ;<8 25 + ; ;40 + ;2
988' + B2 52 23 ;4;2 25 283 ;40 > 3GB' 9 0
'>2 E 8 42 .2 8 J5 + B2 253254B2 + ' . 98200 - '
D ;B' 8 :980 ?92+&:5 .G2B.=2 ; 523?9&:5 +9'
882 253254B2 $9& 5E 34 .G2M + 'B2 52' 38:5 42 8&R
B254B20 - ' < & 'C' ++2 E:9+93 B2 253254B2
?92 ' 'C' '>2 E29A B2 253254B2 '.28 B:8
?92 ' '3G' M5 'LL 2 B2 253254B20 43B2 .:;<B 8'
&283 95 =:;;2 ?9' 52 8 +3 < 8 82 32 253254B2'
>2 52 8 8 8' @2 ;2 8 253254B2' LL G8:+9;253'
:;<B254B2' 5 E 5 E:98 2 J52M 42 52 < 8 25K
3254B2' >&2532548 23 29 253254 ' 29 253254
?9& + 283 @&2532548 ?92 29 2830 23 @&2532548 ?92 @2
89 80 '1!-- ' E0 F' 5 5&253254 @ ; 8 ;29A
?92+:B8?9&:5 253254 8 58 82.:9B8 43B 5J2B80 - '
+! / ' AAZ ' <' GBB' 4 58 ' LL >&25+25480

@2 .:;<B2548 G 25' :98 2 3294:580 5:98 :;;*
<B25:58 .2 ?92 E:98 E:9+2M 4 B2 :98 2532542M0E:98
E:+'G 25 E2B3 8' LL 5 4 3 4 58 95 8258 5 +:J 32
2532542M*E:98^>2 89 842 E:983B48* ;4.:532532 B48*
;4.:5325320 2532542M*E:98 ^ ' '? '"T
' !-' 0 L 2 4 3 8 ;<+2 ;253 988' <:9B <*
<9R2B 95 :B4B20 952 ;25 .2' :B32M0 2532542M*
E:983 7 53254B20E:9+:B 4 B2' $9&2532542M*E:98
< B .28 < B:+283' 53254 53 49 32 ;<+2 42 8:5 .:B<8
.2 ?92 +28 @9 8 253254 253 42 .2+9' 42 +:;:50
' R #' A 0)' ""' $9 54 +28 5. 258 4 8253
+2 <= +:8:<G20 +8 253254253 B 83:320 - ' !
8 0 ,#! ' -' "' LL G8:+9;253' 253_3 2+2
H+ ' 49.=2882 42 :5J92E ++2>' =:5:B '#' :4 B3 42
8' .:5 5.20 @&2532548 42 .2++2 ?92 :5 ' <:9B 95
; ' ' + ' JB 542 54J +34 428 .:54 3 :58 52 +9' 25
B23B 5.=' ?92 +2 3 3B20 " ' ' !" # ' L W 5K
3254B20 .:55 3B20 3B2 = G +2 4 58' 52 <2B8:552
42 ?9':5 <293 4 B2 25 E B 3 '?9& + 5&R '@ ; 8 29
952 4 ;2 ?9' 3 8' G 25 2532549 + 'J + 532B 2 5 8'
; + 2532549 +28J + 5380 E: ' + ' " ' '@& 'G 25
2532549 3 53 3 + '<:+3 ?920 ' 1 -- ' E0 " '+2'
.&283 95 ; 3 2B ?92 @2 5&2532548 < 8 G 250 + 3.:3'
50 " ' ! '42 + ' 2R5 2 ?9' 253254 8 'G 25 + '<:+ .20
5 ' " " ' + 52 89 3 < 8 4&253254B2 + 'J92BB20
K ' ++0 ' 'H B 980 25 4:55 '+2 .:;; 542;253
H42 + ' +:3321 ' .R+ A0 B2.0 ?9' 253254 3 < B 32K
;253 + ' ; B 520 ' K ' - ' 1<75# '3' 50
<' " "0 4 58 <:9: ' ++2 ?53254 + ' .9 8 52 23 &: *
.20 '>' ' < 5 'LLQ&253254B2 G 250 &253254B '
; +0 +2 .:;<B254B2 G 250 ; 0 R 3B2 = G +20 ; +G *
G +2' 2 <B: ;<3 B23:9B ;2 <2B4 23 B: ;<3 5:3B2 25*
3B2<B 82' - ' 9 &2532548 ; +0 33 +20 + + ' ;23 4 58
; ' ; 50 ' ! '-' "'>2 <258 8 B2 G 25'
- '$90 .& 3 3 :B3 &253254B2 ' < !7#" ' ' _'
:98 &2532542M G 25 <290 ;2 4 3* + P +28 B28
3 253 G:58 <:9B + ' ;:B +2 42 +29B 32 ;<8 ; 8 +8
8:53 3B:< +:J5 8 <:9B .2++2 42 49 5 3B20 '0#!5
N' :5'?9' &253254B ' ; 293 =2+&253254B '< 8 ; 30
#' ' 1& # '"' 4.2 80 +0 ' 2 5&283 < 8
; 3 &253254B20 ?92 40 3B2 '+' :8 = B:8 23 2GB *
3 250 # 0 + # '"'A '"' !- - ' "
; ' "N7 ' ' 53254B2 52882 '?92+?92 .=:820 R
E:9+: ' .:;<B254B2 <+98 ?92 + ' .=:82 52 8 J5 2'
! :58 29B 5&R 253254 < 8 <+98 4:' 52882 ?92 ;:0
*! ' '0!-" ' #"7 '-/ '3:'>2 52 8 8 < 8
+ ' 52882 ?9&2+2 R '253254920 23 3:93 .2 'B23: ;G:'
89B ; ' ; <:9B3 530 9 1 [R8' #5' < B30 80
' 2 < 8 R 253254B2 528820 5&_B2 < 8 ; 3 50 52
< 8 9+:B B2 952 ; + .2'HL 2 < 8 253254B2 ; K
+ .2 ' ?92+?92 .=:820 B2 :9 4 B2 ?92+?92 .=:82
8 58 ; 9E 82 53253:5' ' 53254B2 B ++2B 20 <B25K
4B2 G 25 +28 .G:828 4 328 25 < 8 53 530 52 < 8 8&25
: 2582B LL++ 5&253254 < 8 B ++2B 20 .&283* *4 B2 + 2 3
898.2<3 G+2 :9 G 25 + 283 8 E B2 LL 53254B2 + 'B ++2K
B 20 253254B2 '<+ 8 532B 20 E:B + ' .+3 0 & B30
+2 3 +253 42 G 25 B ++2B 'LL 53254B2 B 8:50 .?9 28*
.2B ' .2 ?9' 283 @9838 23 B 8:55 G+2 'LL ' 5&253254
< 8 B 8:5 + *4288980 89B .2 h ; 53 + 283 :< 5 3B 0
5 +2A G+2 'LL &253254B2 5 'B ;20 5 'B 8:50 52 < 8
.:932B +28 :G@2.3 :580 B2 982B < B 253 32 ;2530 < 8
=9 ;29B' LL++0 &253254B206 'B4[I0 3B22532549 0<2Ba9
< B+&:B2 +2' 'E: A 528&253254 < 8' # ++2 .B 8 988 *
%$-%' 42 3:98 . 3 8 8&253254253' 7 4B .+ E0 C' 9
< 24 49 3B 52 ; 5 2 952 E: A 8&253254 30 9 'K -
' 5 GB9 3 B29A 8&2532540 - ' G' E 'LL &25*
3254B20 8&253254B2 &95 & 93B2' 2 GB9 3 283 8 'JB 54
? &:5 52 <293 8&253254B2' LL ' 3B2 .:;<B 8'
;:3 <293 8&253254B2 42 4 E2B828 ; 5 B28' + 283
EB '?920 4 58 95 93B2 42 828 4 +:J928 H42 2B*
B 9+3@0 8& + E 253 ' + '<B29E20 23<B 3254 ;:53B2B?98
898.2<3 G+2 :9 G 25 ...
<: 32 H 54 B2I 52 8&253254' <:530 .&283 .2 ?9& +
<B:9E2 4; B G+2;253 < B + ' 3B 49.3 :5 ?9& + 25 '
320 ' !-/ - '@7 # 'F' LL 2+ '8&2532540.2+ '
8&253254 G 250 .2+ '82 89<<:82 58 0 .2+ '4:3 B2
5B ' ' &2532540 .&283* *4 B2 G 25 253254 90 .2+ 'E'
8 58 4 B20 +:.93 :5 ; + B2?9' 82 4 3< B< B25*
3= 82' 2 .:55 +3B 8*39 < 8 ?92+?92 =:55 32 98*
8 B20 $9' 82BE 3 828 ; 80 25 +2 < R 530 8&253254 3
' 0 " ' 0 "'>2 ;2 .B:8 + GB2 Q@98?9& '95 .2BK
3 5 <:53 8&2532540 9 ' 0#7 ' C' >2 52
B2JB 332 B 5 42 .2332 GR+:<2 ;<9B2 ?92 E:98 = *
G 32M 8&2532540 @2 5&25 B2JB2332 ?92 E:980 <' '
.:9 '+ ' 0 ' ' 2 .:;<B254B2 &95 & 93B2'
:98 5:98 253254:58 '42; *;:3' :9852 5:98 25*
3254:58 <:53' :98 E:98 253254 2M ' ;2BE2 ++280
' N ' >+8 8&253254 253 8 58 B 25 4 B20
AM ' ' 53254:58*5:980 .:;<B25:58 G 25 .2 ?92
2G .95 42 5:98 4 3' LL &253254B20 82 .:;<B254B2
8: * ; ;2' 9 2B 8 .2 ?92 @2 E29A0 :9 ' 89 30 @2
;&2532548 G 250 - ' ,#! ' !7 - ' -- 'B'
0 2 .:5.2B32B0 3B2 4& :.:B404& 532++ J25.2 :98

E:98 328 2532549 .E2.'2++2 ' ;2 59 B20 E: '= '
" ' &:5'E 253 ?92 ;:5 .:29B ; ;2 '42; 'B E:+3 '
2; 2 E:9+:B 8&253254B2 E2.'3 '+ .=23 ^ ', ! '
Q :B0 9 0 '>2 52 E29A <:53 ;&253254B2 E2.'E:825*
52; 80 8 E'N 7' 58 + '<B2; B2 B9 52 42 > 98 *
+2 ;'+28>9 8 8&253254 253 49 ;:58 253B2 29A '4 58
+ ' 42B5 B20 >2B98 +2;0 88 J 2 < B +28 2; 580
3 3 4 .G B 2 < B 3B:8 .3 :98 2552; 280 '
' 0 F' ! 8 8' 4 58 8:5 42E:B E:3B2 .:29B *
2B; ' :9+ 3 52 <:53 8&253254B2 E2.'8:5 2552; 0
' < ' # 0 "' ' :98 5:98 253254:58 G 250 5:98
E E:58 G 25 2582 ;G+2' LL 53254:58*5:98 G 250 8:R:58
G 25 4& 5 2 + J25.2' 53254:58*5:98 G 250 23 5:98
B 988 B:58' LL &253254B2 .:;;2 + BB:58 25' :B20 82
4 +42 J258 ?9 82.:5.2B3253 <:9B ?92+?92 .=:82 42
G+ ; G+2 :9 42 898<2.3' 3 3:9328 H+28 2 ; ;2810 82
+ J9 53 <:9B 5:98 25 B2 ..B:B2 0 &253254293
.253B2 5:98 .:;;2 + BB:58 25 . B2?' '
' =7 ' '# !-' $$ + ' ' !" 3B2 = G +2 4 58
952 .=:820 82 .:55 3B2 '952 .=:82' + 8&253254 25
; 98 ?920 25 3 G+2 9A' '8&253254' + ' .9+39B2' =2
?92+28 =:; ;28 8&253254253 ; + 25 J+:B23 ' ," '
SS ' ' ; + B2;'53' '8&R 253254 .:; ;2 '3 ;2B
428 .=:9A0 .:; ;2' B2 95 .: B20 '52 .:;<B254
B 25 '.2 ?9& + 3' LL B:E2BG28' $9' 5&253254 ?9&952
.+:.=2 5&253254 ?9&958:50 + 93 253254B2 +28 429A
< B3 28' LL ' 9&283 < B2 8:9B40 :9 + 5&283 <:53 42
< B2 8:9B4 ?92 .2+9' ?9' 52 E293 < 8 253254B20 82
4 3 4&95 =:;;2 ?9' 2 53 42 52 < 8 :9+' :9 42 52
< 8 .:;<B254B2
' ' >2 & '2532549 4 B2' 4 + B25328 <2B*
8:55280 283 952 +:.93 :5' + ?92++2 + 93 <B254B2
J B42 . B 2++2 283 ;<= G:+:J ?92' ++2 <293 8 J5 *
2B '@& '2532549 ?9&:5 +2 4 8 3 '4 2B25328 <2B*
8:55280 :9?92 4 B25328 <2B8:5528 +2 4 8 253'
93 4:520 ?9 54 :5 25 9820 G 25 .:58 4 B2B 8' +2
8258 283 89 8 ;253 4 32B; 9 '< B +2 .:532A38'
'F' ! ;2 :G82BE 3:5 <:9B + ' <=B 82' >2 +9' '
2532549 4 B2 .2+ P . B 2++2 <293 8 J5 2B @& '25K
32549 ?9& + 4 8 3 .2+ 0 :9 ?9&:5 +9' 4 8 3 .2+ '
ri ' & 'R E 3 429A B J ;280 & ;<G G:+:J 2 4 8*
< B 33B 3'>2 +9' '2532549 4 B2 '95 =:;;2 4& 3 3
:B3 . + GB20 9 'I:938 ()* ' < #5 - ' A #'
2332 <=B 820 <29 + J 532 4& ++29B80 8 J5 2 8 58
;G J9 '@& '2532549 ?9& + 4 8 3 '95 =:;;2 '
P ' ' J5 2B ' ; 8 42 E2.' - -"# '4 58 +2 8258 42
E: B & 53253 :5' >2 5&25325480 ?9 53 ' ;:0 42G3
<B254B2 '< B3 2 @ ' 'LLN' :9B <29 ?9&:5 R B *
+ .= 8820 :5 3B:5E2B ?920 JB ; ; 3 . +2;2530 -)'
- "# ' "=7 =7 '(&! '<29B R' # '& '283 42 4 K
. +2 2A<+ . 3:5 ' :5 <B254 + ' +:.93 :5 32 2 ?9&2+2
82 <B 825320:5' ' ' - -"# ' ! 3 .2 ?9 0 ; 5 2832*
;2530 52 8 J5 2 B 25' &283 95 B.G +8 ;2 ?9' 25
B254 .:;<32 ; - -"# ' 283 <B:<B2;253 95 E2BG2
5293B2 + 283 25.:B2 9@:9B4&=9 0 + & 3 3 4 58
& 5. 2552 + 5J92' B 4 58 .2332 5. 2552 + 5J92 +28
E2BG28 5293B28 E 253 + '<B:<B 3 '42 82 .:583B9 9 2
E2.' +2<B:5:' <2B8:552+' @ - -"# ' 25 .23 2 ; *
<+:0 283 4:52 - -"# ' 9 5293B2 .:583B9 3 E2.'
QE:R' '<:9B .2332 .:583B9.3 :5 E:R' 984 !
#+/
'8*H' Y' " ' 9 ' " '
53254B2 23 .:;<B254B2 8 J5 253 8 8 B +2 8258 .2
?9' +28 4 83 5J92 42 .:5.2E:B ?9' 8 J5 2 2; GB 882B
< B & 4 2 '@&2532548:9 @2 .:;<B2548 .2332 <=B 82
23 5:5 @2 + ' .:5?:8' 9 .:53B B20 4 58 +2 E2B8 42 :*
+2 9 ' 2 ?9' 82 .:5?:3 G 25 8& 5:5.2 . B2;2530
253254B2 :9 .:;<B254B2 52 .:5E 254B 3 < 8'
59 5.2 283 93B2 :5332 .:;<B254B2 23 253254B2'
9 :5400 & 4 2 4&253254B2 283 42 B2 33253 :5' 0
3B2 = G +2 4 5803 54 8 ?92 .2++2 42 .:;<B254B2 283
<B254B2 25 8: '@&2532548 & ++2 ; 540 @2 +2 8 80 @&R
89 8 = G +2 @2 .:;<B2548 & ++2 ; 54 4 B 3 ; ;:58'
&95 93B2 . 3 0 <:9B 952 4 ; :583B 3:50 .:;<B25K
4B2 283 +2 ; :3 <B:<B2 'N & ' " ' " ' 28 429A
;:380 3B 8*4 + B2538 4 58 &:B J 520 8:53 .:5 < 32*
;253 8R5:5R ;28 9@:9B4&G9 ' 93B 3 3 +2 ; :3 <B:K
<B20 <29 '<29 .8 ' ' < B 253254B2 ?9' 283 +2 ;:3
+J9B+ ' 9 B .&283 <2B.2E:B < B :B2 ++20 253254B2
.&283 <B:<B2;253 B2 33253 :5 &58 J2 829 '+9' '
4:55 ' +2 8258 4 3:9B5 '4&:9+B' '829+2 4 B25.2
?9& + R 30 .&283 ?92 :9 B 283 42E259 E2BG2 4 2.3 '
23 4&95 98 J2 B283B2 53 '$9 54 +2 8258 <293 3B2 +:9K
.=20 + 930 8 58 G 8 32B0 2;<+:R2B :9 B' 58' .2
;:3 42 .9E 98 89B +28 83B:+:J928 P ! J 8 94 25*
49' ?9 ;' 98.9+3 549 ;'.2582:0 82 3B 49 B ' < B P
'E 93 ; 29A +2 ' :92B ?92 +28 .:932B' 53254B2 2*
B 3 3 5 .:53B2*8258 #F' " '0 ' 5325K
4B2 .&283 3B2 << '428 8:58 .:932B .&283 <B 32B
&:B2 ++2 <:9B +28 253254B2' $92+?92 :8 :5 5&25K
3254' < 8 ?9:?9&:5' :;:9320 23 8:9E253 :5 253254
8 58 .:932B
- ' 'A 0 (' 3 4 83 + B2 P G 25 & E2M 25385

494 1& ' " ' :3'AE ' 5'25' ' 4'_'?9'+' 93B4'2 *
3254253 ' . . AAAE'LA 6'8' 2 9'8B2 9252 42*
E2B8 ; : '2932542M :52' <' ' B ; 2B2 + ; :B8
'+9 '253254B2 :9B3 E' +2 E: 3 G 25 23 . :5: 83
23 253253 $9 +5625 283 <+98 ?9' ; 3 H ; 2 8'+2 9*
; 253 3G'E' $9 53 <+98 283+'G2B5 J28 ' JB 53@: 2
53 54 5M 3 53 28 95 < 25 ?9':35: ;' # BJ9+ 5M
' ! ' B2 4 3 +' ; 288 J28 53 542M ; ' B 8:5
' ! ' :9B+:B G: :34H@2I' +2 4 52 59+ ; 3 5 ' 5*
3 53 ' AA ' 25M 253B ' = : ; 8 :4 ; 9+3 <: ' . :5*
< J59 8 :' ' ; 25 '428 89258 8' . 9 ; ' 98 25*
3254958H5:9aB <<B25:581 , &' # ' 8'LA 6 8'
+2 8:'E:98 E:9+ 2M 253254B2 ' ; 5 J2 +42 B: '
$2I' :98 4:5B: 2 B .=2 23 42 = 93 < B J2 G2 '
' . ! - #! * ' C' 2+2 :2332 28 25283B28
82 53' 3 25 95 + BB2 ; 8 5'. 92B 52 ++253253
H ; 88:5 . :29B 5R 283 < 81 G' <' "F' B =9 3@:B8
82 8: 3 2 2549 ' G B:5' ' JB 53 2832 B2 9 8
E 3 . 8.958 '8:5 B2< B2 #:+3 + G H3BG8*. :53253I
?9 53 +2 . :5J G ' <B 8 . ! -' " ' C &! ' <' N" '
G .95 ?9' 8 25+253@9J2B ' :5' 4: 3 ; 2A ; 9E282
<9J5 B $92++ +: +288 2B + 5J9 B D ' " '1& # '
"6 8GB 2 3' E <' "CN' 3 :2R8 283: 3 8 J28 23 25*
3254 58 1&#'" ' . - ' <' ' 93 . :58. 25.2 52 B2*
<B2 3 <+98 3:83 9 ; + ?9 9 G 25 253253 ' 8'
58 32 E:+: 2 288 2B 9 B .2B+28 ; ' 5'253253 ; 2
2 3B +8:5 52 23:5 2 . - '38:8' :B8 2 3923 H+
2:5E 253I@:528J258 253254B2 ' 283B2 J 823 ; :9*
B298 ' :82 CF' + 3 42 ; 9B3B2 283 ; :9+3 8:93 +
23 ; :9+3+2<293 :5 8:93 + ; 253<+ 42B?9 B2+2823
; 8 ?92 :5 82 3 G 25 2532549 ? ' " ' "#'+ ' :9
. :582 +'+' +: 8' . : ; ; 2 25 H D:5I ; 2 4:55 ' '25325K
4B2?92 +8 25E25 83 ; 23225J + 28 9'Q7 '
3 8 . = 2I' ?92 82 + 82 2988253 <B 8 J B42 42 5:98
+ 5:98 2988253 3:9M ; :B8 H39G81 ; 28 + 25325*
4: 253 H 8 253 33253 :5I 9 5B ' 23 9A 3B28
JB:8828 G 3 +28 " ' C' 3 ; 2 4 83 58 ?92 +
5 253254: 3 ; 8 H. : ; <B25 3 < 8I . : ; 253+' B:R8
2 3 <: : B 42 42B: :9B2B " ' JX ' LA+E6 8' HQ 9EB2 42
. G B9BJ 2 ?9'4: 3 G3B2 4G8 BG2I 23 42 .29M ?9' 8 25*
3254293 ; : 2552 ; 253 23 428 R4 :38?9 '82 ; 28. :5*
5: 88253 3 ' " 9 ' ' 5 # ! ' B 83:32
253253 3:98@:9B8 <:9B GB8 .29+A ?9' :53 + ' E2B+9 42
:B3 3942 : 28 2c3= ' C7' 25 8 5 283 <: 53
<2B498 ' . =2+9' H.2+9 I' ?9 8 253253' D 7" ' " '@ '
' CC ' (!J 8' $9 54 .28 ?=2E + 2B8 42 B23 J52
E B253 E25 B+28 5J+: 8 23 ?9 +8 8 :B4 :55: 253 <:9B
29A 88 2J2B 8' 5 25 9B253 ; 2 3B < 2 B RG8 ; 8
253254 B253 <B2 ; 2B2 ; 253 9 . = 832+ 23 <9 8 9A
J92B 328 23 9A <:B328 M ' ' ' Q7C' $9 54 E 53
+2 ; 3 5 42 B2.=2 ' +8 . : ; ; 25.2B253 88 ++B : 3
23 <<2B32 ; 253 25 <+98 29B8 + 29A 23 258:55 2B253
H 5?9 G3GB253I 8' . 29A42 + ' E ++2 ?9 +8 52 8 E: 253
9?92 253254B2 " ' 30 0 " ' 5 +25B 4:55: 3
3 53 ' B8 ?92 :5 52 8 E: 3 < B 424 58 9?92+
+2M H.G3G@ 253254B2 ' ' ' QM' H 28 . :88 8
< B+ 53 428 B 5? 8I 8 52 5:98 253254253 <: 53
5' 5:98 29A " ' 5 B 9B .2 8 4B 82 VL9'
8258' : + 25 @2952882 :9' 25 E 2 ++2882 3 ?9' 52
; 2532540@2 ; 2532580 ! :583B 53 ?92 89 8 4 ; 2
23 ; 83B2882 : 96 D ' 7 ' $9' 253254 ; +
B <:B32 ; + 1' " ' 0#! 5' 3' 5 <' 8: : '
: ; ; 2 E: 8 253254B2M .R <BG8 . :9 3' Q' B +
+ 9+3 253254B2 ?92 ; :582 J524B' 49 # J52 283: 3
E2.' 82<3 :9 =9R3 .258 = : ; 28 4 B ; 28 9 42B 53
428 4928 " ' ' $92 :5 3RB2B: 3 E2B8 B 8 <:9B
288 R2B 8' :5 <:9BB: 3 B249RB2 + ' E +2 E:9+: B 25K
3254B2 9 G 25 <9G+ .' 49 B:R 9+ ; 2 +: ' N' 3 R
25 ' 882M ?9' 52 < B+253 ?92 <BG8+28 9+B28 8 58
J92B28 253254B2 9A ; 3 2B28 " ' H :9 8 S I'
283: 3 8823 +233BG + R ; : 3 '42 ; 542B 23 ' 25K
3254B2 42 3:9328 .G: V28 " ' 5 M' O B 258 52 E:9+93
+24 3 492 253254B2 " 9 ' ; ' 5J 428 <+98 8 J28
. =2E + 2B8 23 <= 8 25325498 ?92@2 . :J5298@ ; 8
' 3 ' C' ++282 42+G2B ' 42 8:R << B2 ++2B <:9B
G:552832 ; 253 B8 " ; 28 J23 . B G 25 . :5E2*
5: 3+2 B8 42 G:5528:B32 2532549 ?92 +28 <9.2+*
+28 ' ?9' + ++: 3 ?9 +2 32 83 +28 ; 288 J28 283: 253
" ' JB 54 283 + 0 # !# ' 3' E ' ' C7' LLAE 68'
> 253254M 23 E29+A ?92 39 <<B25528 +28 + 5J928
< 4 .32 ; 253 ' 0 # ' 5 F' #:5 ; R @2 5 25*
3254M <: 53 .2 G BB J: 9 5P<:9B3 53 8' E:9+2M ?9 :5
! '253254 2 < B+2M 9+3B2 + =J9 J2 ' G' ++' '
:98 R ; 252B2M E:83B2 2 ; ; 2 8 + E:98 <+ 83
E2. ?928 828 E: 8 528 .2+ ' 8 253254 " G' 5 '
:98 E2M :9R 8 E2M*E:98 253254B2 ?9 " G' E'
0#! ' R 5 2532:4253 +28 83:+. 258?92+ ; 242 +29B
8 J2 <9 882 ' N ' 2 82 J529B 42 5J2R
3BG8 2532549 25 32+28 . =:828 5' 3 NF' B:2898 +9'
'253254B2 ?9 +E2B : 3 + :B8 '828 428<258 B2B*
3 882 ; 253 42 :Q:5 " ' 3 3 ' +29B 82 ; G+2 G 25
h+ B2' +28 ; :42B2M 23+28 25325498 ?9 54 " ' '
7*" ' % 2528B2882 ; :?9253* +8 428 93B28 ?9' 5 25*

3254253 < 8 +23:9B49G 83:5 23 +28 <<2+253 +:9B*
4 938 ' M' B3 ; + 3 B2 283 988' ; 29A
2532549 ?9 + 5 283: 3 " ' ; aD' ' <+9< B3 42 + '5:K
G+2882 R 53 2532549 2A2.93 :5 42 88R 82 42*
+G2B ' 42 E25 B <BG8 B 8 B:' 0' = .95 8 5. 3: 3
' < A 23 ' <2B89 42B +28 JB 548 4 R 253254B2 5'
NNF' = ?92+?92 83R+2 ?9 +8: 3 ; 8 <:9BE29 ?9 +
8 2532542 + 52<293 ++B '283B2 G 25 B2.29 $ '
' ' 2B: 8 ; : 58 42 4:932 42+ ' E:+:53G 49 < <2
' 5:98 88 832B 25 .283 : . . 8 :5 ?92 42 .2++2 49 B:R
. 3= : + ? 2 . B 8' 5323G 8 283 4G@ ' + 88G 25325K
4B2 H' 4:55G ' 253254B2I ?9 + +: 3 . =: 8 B 95
<B 5 .2 49 8 5J' . 3= : + ?92 <:9B =2B 32B 49 B:R 9 ; 2
<BG8+2 42.G842 # ' +2 . B4 5 + 42 :9BG:5 :
' C ' 3' ' <' DA ' 4 58 " ' S G:5 25*
3258*39' + 52 93 ?9 95 ; :95 9 ' ?9 E:?928
< B ; <= G:+: J 2 E9+J B2 ; 253 <<2+G28 428 25*
32548*3B: 8 ' " ' D / ##7# ' . =' 8' 9
<253 B2 = G+32 2 ; <28. =G 23 2532549 2 283*
*4 B2 +28 :3 23 ; 82B G+2 '@ / ' '
- ' ! ' :9BJ9 J' - ## 3 <B:E25?' - - "# 3
. 3 + ' - - "# #3 28< J5' 25+2542BP 3 + ' - - "# 3
49 + 3 5 - " # ' 4 B J2B E2B8 <<+ ?92B 42 5
25 23 - " # '3254B2 QE:R' .2 ; :3/ 23 < B 2AK
3258 :5 4 58 +28 + 5J928 B: ; 528 :9+B 23 . : ; *
<B254B2
' Q 5*3 5*49 492/ # ' *'
4 253254B2' LL 6 $9' 'G3G <2B?9 < B :B2 ++2' 2
3:552BB2 2532549 42+: 5' 28 ; 25 .28 ' <2 52 25*
3254928 42 .2+9' ' ?9' 2++28 8 4B288 253'LL ' $9' '
G3G G. :93G' . . 98G 2532549 4 58 82a ; :R258 42 4G*
2582' LL 2B ; 2 42 < + 8' ' . 982 283 25325492. 283*
*4 B2 +28 4GG 38 8:53 .+:8' LL ' :53+2 8258 'G3G8 8'
2332 <=B 82 4 E2B825 253 25325492 < B +28 3B 49.*
329B8' 2 ; :583B2 9B 29A 42 82 E: B 2532549 E25J2
988 3G329B +9' 3 53 42 8 5J BG< 349 '1< "
" ' ' 283 2532549 2 283* *4 B2 2 283 . :5E259 B*
BG3G' 2B28 5 3 :9G+ 2 < 8 42 + 882B+' <23 32 <:B32
:9E2B32 25 3 25 ++ 53' , - ' 25:B : 283 2532549 !
" ' ? " ' ' DY' ' 25 2532549 : . ' "5' 889*
BG ; 253 8 58 4:932' (' . :$82532M*E:98 G 25 2532549'
' 25 2532549 ?92 !T' (! - ; ' :932 : 8 <:9B3 53'
: + ' + ' BGJ+2 G 25 2532549 ?9 ' R ' 428 2A.2<K
3 :58' 98:58 : : ; ; 2 8' 5 8 E :58 B 25 ' 4G*
; G+2B G 25 2532549 @:93 *3*2+ 2 ?92 5:98 52
5:98 25 ; 2B:58 < 8 Q\E $3 J2 23 ?9 :'5:98 B2*
<B254B:58 :8 4G ; G+G8 9 B23:9B]]' " ' $+ '
@! 75 - # ' 4 58 " %B LL "6 $9' ' 532++ J25.2
4 952 .=:82' 5 G: ; ; 2 2532549 9A B28 $9 : '
52 2B4 2 < 8?9 + G3 <25 2532549 4 58 .28 3B28
' B'N' 28 =: ; ; 28 +28 +98 25325498 ' + '
J92BB2 " ' K ' + ' M' 28 =: ; ; 28 58 :9 25*
325498 ' "$' 1 ' :B3 2532549 9 ; G3 2B 42 + '
J92BB2 ? ' K ' " ' , & ! " ' 9 ' N' LL 9G*
83 53 E2 ; 253' B2 2532549 J B 25 <2B8:552 ?9'
8 2:3254 9A .=:828 23 +2 <+98 8:9E253 25 95
8258 4G E:B G32 B2 ; <:B3 53 +2 . < G+2' 9
B28323 U' 3 2532549 . : ; ; 2 8 + G3 3 8:B3' 42+ '
2G32 42 8 53 :9 8 ' : ; ' / ! ' & ' M' :98
E:R2M ?92@2' 8 95 <29 2532549 2 8 E' Q"Q' $9: ?92
@2 882' 2932549 2 @2' 52 89 8 < 8 8' = G +2 " ' JDW'
' 5 4 3 4 58 +2 ; G ; 2 8258 3B 52G2B 42 2 ; 2549'
>25 8 8 . : ; ; 2 +9' ?9' < B+253 4 ++2 ; J52' 3
8' :5 E293 +28 .B: B2 :53 E9 . =2?92 . ; < J52
9B 2G ?92 : . . 8 :5 3B 5. G253 428 25325498' :5K
3253 ?92+?92 4G 32 ' ' C - ' ' LL ' 25
2532549 4 8<:8G E2.' 532++ J25. 2 E2.' B3' 52
4B <2B 2 G 25 25325492' ' > - ! - - 7' . ' M@ 24 ?9' E 3
253254920 ' ' 4G2:B 3 :5 25 283 G 25
3 95 :9EB J2 8' G 25 2532549 23 8' . < G+2 42 8 *
3 8 B2 3:93 .2 ?9' 2532=4 ' ' 1! - - ' E F'
2 93 ' B 8 . : ; ; 958 ?9 +8 4:55GB253 +28 B2< 8
+28 ; 29A 25325498 23 +28 <+98 4G+ . 38 ?9 :5' 2 +3
25. :B2 E98 D? # 'K# ' " ' 28@ B4 8 G3 253
G 25 25325498 23 :B5G8 42 G2+ 28 83 3928@9 54'
M' ' +28 E 53 <B254B2 +9 * ; G ; 2 <:9B +28 5E 32B '
95 B2< 8 <B: <B2 23 G 25 2532549 ' X " / ' '
' 58 +2 8258 . :53B B2 3:93 G3 3 ; + 2532549
4 8<:8G 8 58 J243 8 58 532++ J25.2' LL 25 2: *
32549 ; + 25325492 824 3 988 '428 . =:828 : B +28'
' E:98 5 2:88 2M 3 ?9:' . :5?9GB B + ' BG.2 +28
3 28 E: 8 528 23 <293*G3B2 25. :B2 ?92+?92 <2332
< B3 2 42 8 2 529B2 23 E:98 25 . : ; <:82B 95
3 3 + 5 R E 3 B 25 42 ; 29A 2532549 : ' 42 <+98
B 8:55 G+2 % ' ' " ' !# ' ? B - "# ' '
0&# - " ' S GJ B4 428 <2B8:5528 ?9 95 MG+2 8 52GB2
?9: ?92 ; + 2532549 <:9BB ' 54 8<:82B .253B2 ; : :
@ 25 B28<2.32B ' + ' . 982 8 58 2= .B 54B ' 23 8 58
25 <<B:9E2B 2 23 ' ? ' " ' ' # ' 1<75'
3' ' <' BM' 4 58 ' : 5 4 G3B2 952 ; 9*
E 82 ; GB2 G +2 ' 952 3254B2882 3BG8*G 25 25325492
<:9B +28 ' 25 538 6 B ' 7 ' ? " ' ' , & ! "
+233' " < ' "N" 4 58

- ' #0 532549 3:9328 +28 < B3 28 :9 G 25 +:8
< B3 28 253254928' 2 < B3 . <2 283 54G. + 5 G+2
4 58 +2 <B2 ; 2B . 8 4G. + 5 G+2 4 58 +2 82. :54 4 *
<BG8 + ' BGJ+2 ; :42B52 ?9' E293 ?9 58' <+ .G +2
< B3 . <2 8: 3 542. + 5 G+2 < B 2A ; <+2 '2A.2<3G 56
. 98 23.
3' A # ' Q 5*3G*5G*GBG/' 5' ' 5E2+: <<2B
42 3G5G=B28' 28 E 3B 9A H42 + ' . 3GG4B +2 42 2J258K
G9BJI' 253G52GB253 42 .2332 :G8. 9B 3G <B: <B2 9 B2*
. 92 ++2 ; 253 ' 4 58 +2 ' " ' " N
' : - - - ' (' - , ! - ' * / % & * / 7 ! " + " / % # " + * ' "
" / ' 260 ' % ' " * / % & " (' * " & < U8 " ! : J " / % " / " - - ' " < ' " % * (2 ! ' ('
" % / " 4 * " / % . " * - " 2 " ' " + " / % ' " ' ' - # #
' ? ' < - ' ' ' - #
' Q 5*3 5*3 / ' LL 6 ! 5 GB2 4 25325K
4B2 42 . : ; <B254B2' ! :3 <=B 82 ' 4:9G+2 2532532'
= .95 8 3 ?92+2 283 ; :5 2532532 ' ' 0" '
28 2A<B288 :58 8:53 898. 2<3 G+28 42 <+98 29B8
25325328 428 32B ; 28 ' 4:9G+2 2532532
E 4 58 ' LL 2B ; 2 4 B3' 532+K
+J25. 2 4 58 + ' 4 83B G93 :5 428 < B3 28 4 952 . : ; K
<:8 3 :5 4 95 2582 ; G+2' + ' 25 2532 49 . :+:58'
283 +9' H <:++: 4:B2I' ?9' 3B:9E ' 25 5 +2 82. B23 42
B2<BG82532B 9 E ' 23 4 58 +29B <+98 JB 542 G2 93G
+28 4 E2B8 :G@238 42 + ' 5 39B2 5:5*829+2 ; 253 < B + '
. :BB2.3 :5 49 4288 5* ; 8 <B 5. < +2 ; 253 < B
2532532 49 . : +:B 8 23 < B + ' 4 83B G93 :5 428 : ; K
GB28 428 +9 ; GB28 23 49 . + B :G8. 9B ' K '
- ' U<75# ' 3' A "]' < B3' <' QN 4 58 H '
' <+98 G2+2 2532532 42 +9 ; GB28 ' +:5
" ' DAMM ' 1<75# ' 3' : - - - ' <' D Y ' 4 58 ' +
R ' 4 58 +2 ; :B. 2 9 4 5 2BG:5 . :9+29B 2532532
42 +9 ; GB28 E J929B 23 3B 58< B25.2 +2 3:93 283
4 95 3:5 EB ' 23 89 E2 " ' @ ! - ' " ' DAMA ' 3' AE
< ' M' ' B 2A3258 :5' 23 9329B ' 2 ; 2532 42+ '
82G52' LL 6 :552 532+ J25.2' + R' ' 42 2532532
4 58.2332 ; +2 + 532532 . :B4 +2 3G ; : J5 J28
42 G:5 E:9+: B ?9 ' = 5J253 253B2 29A +28 .=2 8 42
429A 3 38 +: . 93 :5 ? ' 4 32 42 4B2882 42 + '
G ; GB24284G<93G8 42 F" *QF"Q 23 ?9 49+ 5*
J J2 <:+ 3 ?92 ' < 8G 4 58 +2 + 5J J2 : + B2'
' B:EGBG2' 2532532 283 9 4 829B 2 283* *4 B2 .2+9'
, ! - < B+2 2:3254 G 25 .2 ?9 + E293 4 B2
- ' # ' O I' 8' 53B2 3 5328 ; 2BE2 ++28 ; ' 2 8
4 J5' :EB2B ' B ' 4952M 2532532 ' 8' + ' ; :BB2M
.9532B ,&' # ' QNN' LL S#Q6 8' ; 8 + ' E:83B2
; :B8 ; 2 + EB2 32+ 25325320 $9 25 + B ; 28 23 25 <+:B8
982B ' ; ' @:9E2532 " ' ' ' . ! - #! '
<' Q ' S 2 ; 5' 8 28 8. 952 ; 23 8 25325320
D # ' 1 9 ' ! 8 D ; :B ?9' 32 253 9 + 8 G B*
52A 42+ 8 32 B2<B282532' ' ?92 39 5 8 ++:B8 25*
325320 ' D! ' "NQF' 28 R2A: 3 H 249 +I' E B8 + '
G: 9. =2 J2B 32 3 +2 52M 3 < B JB 53 2532532 '
FQ ' ' A E6 8' ' 2:5E 253 E: B 8:5 2532532 98 4 M
:9 : < 5 :58 428 J258 2A<2B8 ' < &' QFN'
' O I' 8' ++8 E:9+: 253 B2 ' +29B 25325320
5 ' % ' FN' = . 95 2 ; <:B32 253B2 + ' 82++2 23 +2 < 5*
52 9 952 JB 542 <+ 32 < 2BB2 23 3B:9882 42BB 2B2
+9' 952 G28 22 <+2352 42 3 B 52 25 .2332 2532532
?92 ' ' ' ' " ' B +28 E2+++28 <2 528 23 + *
329B8 23 25325328 H8: 58I ?92 39 8 <B 58280 : 38 A
' ! 75 ' ' O I' 8' :93 58' ? 25325320 8< : B 23
332532 :98 E:58 25 3: c ' E A
0 - ' (! ' / - - "# 3 <B:E25?' - -
' Q 5*3G/ ' LL 6 2B ; 2 4 =:B3 . 9+39B2'
B2 2B < B 2532' 532B 95 <: B 2B 95 <: ; ; 2B'
' J' 38 253253 89B .2332 <: + 32882 95 28<B 3 42
BGJ+2 ' (' S' :98 E:58 253G 89B :+E 2B
B 5232J2B ; 2 42 5 4G+ 3G ' C ' #5' 2
92 + B E2.' 2. 3 3 :5 +28 4GGB 8 42 .28 ; + 28
53 ?928 23 G32 5328 <:9B +28 2532B 89B 95 =:B5 :G8K
. 9B ' 0 - / '@' 0# - / ' " ' 0 7 ' 2 2 J529B
23 8G2G2B + ' B . 52 42 E:3B2 :BJ92 ++2982 <:8 GB 3G
23 2532B ' 428898 952 B .2 ?9' ! :5 33B +' @983 .2 23
2B ' + ' ; 8GB . :B42 5' #' 7 - ' #! ' LL 6 5*
8GB2B 25 JG5GB + ' ; 53 @9J2 8' 4 ; 2 95 . =2 *
4 :29EB2 . *G 8 5. :B2 ?9 2++2 5 3 89B 8:+ B 25'
?9' 8: 3 4 2++2 ' $9 2++2 2532 25 8:5 < + 8 828 42538
3:98 +28 ; 3 58 7 ' :3' A' LH 6 2B ; 2 42
9. :552B 2' . . : ; ; :42B 952 <2552 42 : 82 9
B: 88G2 :9 B: ; <92 8: 3 < B+ '@:5. 3 :9 4 952 <2552
J B4G2 8: 3 ' J9 ++2 :9 9 39R 9'LL"6 2B ; 2 42
.= B<253 2B' > : 54B2 :9 882 ; G+2B 429A < G.28 42
=: 8 42 + ' ; G ; 2 JB:8829B 23 4 58 + ' ; G ; 2 4 B2.K
3 :5' ' N6 #233B2 952 2532 ++:5J2B <+98 :9 ; : 58
?9 54 :5' ' <BG + G+2 ; 253 . :9<2 +2 G:93 ?9' G3 3
98G :9 3B: < . :9B3' 28 G:938 42.28 G 8 8:53 ; 9E 8
+ 94B '+28 2532B :98 ; 28 G 8 8:53 253G8' LN' 25*
32B W' # ' 3B2 253G' 2 <B95 2B 8 2532 89B 8 9E *
J2:5' ' J' 5 E .2 ?9' 8 2532 89B 95 93B2 E .2
- ' # A 96 8' > <2 +29B. 92B8 H428429S ; 58I
\ BE:+ 53G8P 3+29BE:9+: B8 8:538 '253G8 9B95428 B
?9 253B2 298 4298:53 $92 42 4298 .92B8 5'E:+V 33:53

D -(& ' ? - ' "N 'LLM E6 8' 2832 8. 25.2 283: 3
5 39B2 2 ; 2 3 25 +29B.929B 253'20 5: 2 23 <+ 53 20
:3 ! 0 B: 'H 28 ; 3 9 I' 28 2+2 ; 258 <B255253
Z29B 283B2 B' :98 25 &2+2 ; 253 32BB283B20 3 8 58
82 ; 28 23 8 58 <+ 532B0 58 .9+3 E2B 52 8 58 2532B0
? (& '"' - '"CF' 2 E:83B2 :R82+ '952 <2552 B: ; *
<920 :58 +9 'B2 ; 232B2M 23 2532B2M 25 .2832 ; *
'5 2B2 'C!"7 ' 'A. E0 5 # ! ' H AE6 8' 52 E2B39
25 3:5 . :2B25320 $92 4 ; 2 G2+20 @2952 23 J2532
G2 B 8 23 .B2 ; B 80 < - ' !7# ' 58
=29B32 + 'R258 9A :+: .= 2B8 $9& + 52 3 9A <23 38
<+ 5.= 2B80 3 < B :9+4B2 8253 .B2E 532M +98 ?92
+28 .2+ 2B8 G 8 2532M0 - ' 0! ' '
_'NNC0 4 58 # ' 2 BJ253 E2M0 + 5&283 2534P
! 8 +2 428<2542M 3:83 *23 E 8320 ''D " '
+ (!-' 7B' - - ' #"7 'LL AE 6 8' 2 G <328 ; 2
5:98 .2B3 2 ?92 5:98 8: ; ; 28 2532M 25 + ' ; :B3 23
+ 'E 2 42 >2898 =B 830 ' - ' " % ' 5 8 '42A3B2
2+2 253 H ; 3I + ' = .=2 B ?9 ' +28 B: 8 8253 BB *
32M0 ' NC' &2532B 25 2532 :9 9 . : 50 < B
4& 9.958 25 <:9< 20 23 25 <23 32 . :B:552 :9 253B2
&28. :B.2 23 +2 G: 80 8:53 25 ; 28 ; 2 <B24 . ; 2530
< B.2 ?9&25 &952 23 & 93B2 8:B32 82 82B3*:5 42 JB2 *
280 +28 3 82B 58 89B +28 BGB28 8 9E J28 :9 B 5.80
: ' ' ' NNN' B &28.988:5 23 . 5:50 G2 9*
. :9< <+98 4& BGB28 8:53 25328 ?92 < B JB2 20 - ' N'
>& ' 253N =29B2982 ; 253 25 28.988:5 9 ; : 8 42
@9 50 428 BGB28 4:53 @& E: 8 3B ' +28 28.988:58 25
BGB28 253 8 9 . : 50 9 <B2.24253 ; : 8 42 ; B80
'F%7' :98 . :582BE2B 8 E:8 JB2 28 8 58 23 253 2B8
@98?9& 9 <: 5.3 ?9& + +28 +2 2532B0 - ' NN ' '
; 5 2B2 4&2532B 25 < 2.2 B <<:B3420 '?92+?92 . :B*
B28<:54 5.2 E2.' .2+2 ' &282988:50 53 .2.'
42 . : ; ; 950 ?9&95 829+ :2 +23 89 3 3 B2 95
25320 - ' NC"
-' 9 ' <- 3 <B:E25?' #' - 7 #3
. 3' a#
3' 'Q 5*34*B *4W*5&/08' ' 2B ; 8 4 '
5 3: ; 2' 5J+ :5 +R ; <= 3 ?92 53283 5 +
-'# $ '<-A#! 23 "N N ' J+ 542
3' # ' Q 5*34*B *4 *5:*JB *
2/0 8' ' 28.B <3 :5 428 J 5J+ :58 +R ; <= 3 ?928
53283 5 9A
-' (!'<- # " - '23 (<:3<2 E0 442B B2
'Q 5*34*B +*@ 2/0 ' ' 2B ; 8 42
; 42. 52' :9+29B ?9 ' '8:5 8 4J2 4 58 +28 5328*
3 58
-'# $ '<- "#! "% #-8*3' #*!&"!'
3' 'Q 5*3 *B2*\3 *M 2/0 8' ' 2B ; 2
42 ; 442. 52' + 3 3 :5 428 53283 58
-'E $ '<- "#! "% A ; .0 #-&0%0%-*/'#"' -:
23 % Z0 3258 :50 A2 E2 E0 3254B2 QE:R' Q : G
V W+" .*.@-8 @ 'Q 5*34*B4*< *<+:*8G*B/0 ' '
:R' # !# #
+ 0 ' Q 5*3 *B *5 +0 5 * &/0' "";'
2B ; 2 42 4B: 3' $9' . :5.2 ; 2 &2534B 52 ; 2530 ?9'
+2 <2B ; 23
!" 6 ' 'Q 5*34*B *540 542/0 # ' "'
$9' 'B2?9 253 B 52 ; 253' 2?9 32 253'B 5420 <52:B2
?92 +2 B: ' 3 4:554 JB .2 \' 95 G: ; ; 20 8' 93* I'
?9&2+2 8:3 2534B 5420 '0 - " '0 ' '
D/ ' "N
!" !"'Q 5*34*B *52* ; 5/0 ' 2B ; 2
42 @9B 8<B9425.2' .3 :5 4&2534B 52B*@9J2 ; 253 < B
+2?92+ :5 2534B 52' 2 ; 542B 95 2534B 52 ; 253'
hh 3 3 4&95 .32 2534B 54
-' (!'<- "# - #' 5 3B:9E2 - # - -('4 58
428 :939 ; 28
!" 'Q 5*34*B *54/0 ' :' 3 +2B @9B 4 *
?92 ; 253 95 .32 <:9B +2 B254B2 E + G+2' & BB43 ?9'
2534B 52 952 B2?9 32' 534B 52B 428 +233B28 42 B2 ; 8K
8 :50 '0 "'%0 4 58 'LL G8:+9*
; 253' ' +2 < B+2 ; 253 2534B 52 8 58 +2 B: 0 :9 8& +
B2 982 4&2534B 52B 89B &:B4B2 #!' B: 0 .2 5&283 <+98
+2 < B+2 ; 253 #!' B: 0 8 95 . :B<8 B4E:+340 8
0 - " '7#' ' ! ' ' / '"N'LL J' ! '<B 4B2 < B*
E 53 9A 32 ; <+28 43: +480 B93 42E 53 8' .2 H42
2910 2+ 93 2534B 542 &95 ; :3 ?9 ' 3 3B2 ; G+2B
+28 . 3:R258 +480 ' 3' . - ' <' A' ## ' e +26
\25 2B' 2 8 53 <:53 2 H>2898* =B 83I' < B ?9 3:9328
+28 JB4228 8:53 2534B 5428 ' Y
-' !' 9J2+ 8 E2B3 3 . :53B2 + ' ; 9E 82 <B:*
5:5. 3 :5 - # - #3 2+2 E 3 <B4E +9 4 58 +2
S]8 4.+20 ?9 0 < B 2.3 3 :5 42 + 3 5 340 .= 5J4
<+98 4&952 :8 +28 :B ; 28 EB ; 253 B 5? 828
-'('A '8' '<B: .9B2B28 4: 3 2532B 52B \' +2
I' < B3 2 .2 ?9& + +' . :5E25 5.= ' :9 93 53 E +*
+ 530 'FE' 3 .2 ?92 + '328 ; : 5J 328 ; : J52*
B: 2530 +2 ; 283B2 +2 42EB: 3 B2 325 B 23 2532B 52B0
5 ' " " ' "7N' LL A E]' 8' 28 .=:828 42E 53 4 328
325 B 23 2532B J52B 23 +:R 9 ; 253 J B42B 25 G +52
$*-'? '"' ; DaJ' ' ? /# ' 7##Q -"' 7'
; :R25 "/ ' <' ""N' LL AE 6 8' 9 ; 2 2B 8 @ :R2 23

+ 2882 :9+B0 ! 8 B2E2+ 53 ; ' JB .2 532B 542' :B8
8253 B R .B: 83B2 23 82 B2@:9 B ! 28 :80 ; ' :B.20 23
E2B39 42.+ 5420 ' ' $S 'F ' + ' 42 ; 548
4284 3 4E: . 3 23 <B: .9B29B 532B 542082+:5 + ' :B ; 2
23 32529B0 ' ' ' %
-' (!' 5.' B 5?' - # - '?9 ' E 3 4:554
& 4E2BG2 - # - - '23 4:53 +2 8258 23 &43R ; :+:J 2
8:53 +28 ; 4 ; 28 ?92 <:9B - #' : :B ; 2+ 3 52 .3 E2
- /# - 7 ' 42 - / #' 253 2B' <- "# - # 8 J5 2
4:520 <B: <B2 ; 2530 B254B2 253 2B0 . : ; <+23' 9J2+ 8
+2 3 B2 42 > - "# ' . . :B44 < B = B+28 $9 53 9A
B:3283 538* ; 80 +2 ; :3 2A 83 53448 +2 A]' 8 4.+20
.2332 43R ; :+:J 2 5& ' 9.952 E +29B
3' !" <0 'Q 5*34*B *\&/0 "; ' 2 4 3 42 ('?9 '
<< B3 253 \' & 53283 5 :9 25 44<254
-' (!'& E 8< A .0 42 2E 2<:E0 53283 5
3' # 'Q 5*34*B *8\ *:*84*B/0 ' '
2B ; 2 42 .= B9BJ 2' #2B5 2 53283 5 +2 < B &4.= 5*
.9B2 8.= 3 ?92
-' (!'<- "#! 23 (& !(
3 'Q 5*34*B * /0 ' ' 2B ; 2 42 ; 442. 52
5 + ; ; 3 :5 42 + ' ; 2 ; GB 52 ; 9?92982 ?9 '3 < 882
+2 . 5 + 53283 5 +
-' (!'& E 8<:E0 53283 50 23 + ' 5 +2 ; 44 *
. +2 '?9 ' 54 ?92 5 + ; ; 3 :5
3' ' ; :3 ?9 ' E 253 42 EA2<:E0 5328K
3 50 534B 29B Q. : ; <' G' 23 283 2 ; <+:R4 25
. : ; <:8 3 :5
3' ! # ' Q 5*34*B:*GB 5*.=&/ 0 "; '
2B ; 2 42 M: :+:J 2' :53 +28 GB 5.= 28 8:53 . .G228
4 58 & 534B 29B 49 . :B<8
-' (!'& EE2<:E0 534B 29B0 23 &# - &
@* !" - 8 'Q 5*34*B:*84* /0 ' ' 2B ; 2 42
.= B9BJ 2' #2B5 2 :B ; 42 < B & 53283 5 829
-'# 0 AEB 8' ' 2&283 & 53283 5 ?9 ' 428.254
424 58 +2 8.B:39 ; 0 + '= BJ52 82 5: ; ; 2 2532B: . ''
:9 53283 5 +20
-' (!'<- "#! 23 A 'S E0 =2B5 2
3' * 'Q 5*34*B:*\ :*+ * /0 8 [' 2B ; 2
42 ; 442. 52' : ; ' 4:554 < B ?92+?928 9329B80 \'
&2534B 32
-' (!' 534B: 23 (!A
3' * ('Q 5*34*B:*8 *83:*84* &/0 '
' 2B ; 2 42 ; 442. 52' #2B5 2 . :5325 53 + 'E288 2
9B 5 B2 23 952 582 53283 5 +2
-' (!'<- "#! 23 / !('
j' 'Q 5*34*B:*44* &/0 "; ' 2B ; 2 42
M: :+:J 2' $9' ' 95 39G2 53283 5 + G 25 4 83 5.3'
' @'# ' 2.3 :5 428 5 98: B28 4 38 <:+RJ 83B ?9280
: + +2 . 5 + + ; 253 B2 283 32B ; 54 < B 952 G:9.=2
:9 95 598
-' (!'<- "#! 23 F /S: .0 R 8 G+2
3' # 'Q 5*34*B:*4 :*3 4*5 2/0 80 '
93B2 5: ; ' 42 + ' 4:3= 452534B 2 QE:R ' .2 ; :3/
3' , - U!* 'Q 5*34*B:*4 *5 2/0 ' ' 2B ; 2 42
; 442. 52' :9+29B 53283 5 +20 . :+ ?92 52BE2982
-' (!'<- "#! 23 9E50 4:9+29B
3' * 'Q 5*34*B:*2*< *<+:*84*+&/0
8' ' #2B5 2 ?9 *B2532B ; 2 \' + ' : 8 & 53283 5 23 &4*
< <+: :5
-' (!'<- "#! 23" ! @
3' # h 5*34*B:*JB * '0 8 [+' 28K
.B <3 :5 5 3: ; ?92 428 53283 58
(+ '<- "#! '23 (<4?23 0 442B B2
! 'Q 5*34*B:*' ; 2/0 ' ' 2B ; 2
42 ; 442. 52' :5J283 :5 49 8 5J 9 . 5 + 53283 5 +
-' (!'<- "#! 23 +< 0 8 5J
3' ! , - :? - , , ?# J* 'Q 5*34*B:*4* ; :*BB *
@ 2/0 ' ' 2B ; 2 42 ; 442. 52' #4 ; :BB= J 2 4 58
& 53283 5
-' (!'<- "#! 23 &" !##& /
3' *# ('Q 5*34*B:* *4B:*84* &/0
' ' 2B ; 2 42 .= B9BJ 2' #2B5 2 53283 5 +2 . : ; < *
?942 4&=R4B: .4+2
-' (!'<- "#! 23 & "#!(
3' *# (! # 'Q 5*34*B:* *4B:5*
* &/0 8' ' 2B ; 2 42 .= B9BJ 2' #2B5 2 : ; G+ . +2
. :5325 53 952 <:B3 :5 4& 53283 5 E2.' 95 ; 8 42
84B:8 34 4 58 +2 8 .' =2B5 B2
-' (!'<- "#! 23 & "#! &
j' # 'Q 5*34*B:*+ * /0 8' ; ' , # ' 42
; 442. 52' :52B43 :5 :9' < 2BB2 53283 5 +2
-' (!'<- "#! 23 S 7:P0 < 2BB2
3' 'Q 5*34*B:*+:*@ 2/0 8' ' B 34
89B +28 53283 58
-' (!'<- "#! 23 (9 '3B 34
V !" - : @ ' Q 5*34*B:* ; 4*B:*84* &/ 0
' ' 2B ; 2 42*.= B9BJ 2' #2B5 2 .B9B +2 :B ; 42 < B
& 53283 5
0 ' (!'<- "#! 23 B-"#!(
3' *! 5 " ' Q 5*34*B:* ; 4*M 5*
34*B *\&/0 3 ' ' 2B ; 2 4& 5 32 ; 2' $9' 'B <<:B3 9A
53283 58 23 9 ; 482534B20 LL 2B ; 2 42 ; 442. 52

4EB2 2534B:* ; 482534B ?920 8R5 :5R ; 8 42 4:3= 4K
52534B 2 :9 +4EB2 3R<=: 42
**' (!'<- "#! 23 " - "# =7
3' # *! 'Q 5*34*B:* ; 4*M 5*34*
B *3&/ ' 2B ; 2 42 ; 442. 52' R5 :5R ; 2 42 . BB2 9
-' (!'<- "#! 23 " - "#
3' ! # 'Q 5*34*B:5* 2* &/0 ' 8' ' 2B ; 2
42 .= B9BJ 2' #2B5 2 : ; G+ . +2 :B ; 42 < B & 53283 5
829+
- (!'<- "#! '23 4< ? S4.0 5 : ; GB + '
3' ! (Q 5 34*B:* ; * *M&/0' 8' ' 2B ; 2
42 ; 442. 52' 2.3 :5 53283 5 +2 . B 234B 842 < '
&2A<9+8 :5 42 + BE28 42 ; :9.=28 44E2+:<<428 4 58
+2 . 5 + 53283 5 +
-' (!'<- "#! 23 <39 0 ; :9.=2
3' * 'Q 5*34*B:*<4*B *83:* &/0 '
' 2B ; 2 42 .= B9BJ 2' 3B 5J+2 ; 253 428 53283 580
4 58 952 =2B5 20 :9 93B2 ; 253
-' (!'<- "#! '23 32< :A:S50 B2882BB2 ; 2530
42 38<+0 93:9B0 23.A8SS23E0 4 8<:82B
3' > * >! 'Q 5*34*B:*<529* ; *3:*
M&/0' ' ' 2B ; 2 42 ; 442. 52' 4E2+:<<2 ; 253 ; :BG 42
4&952 ?9 53 34 . :58 42B G+2 42 J M 4 58 & 53283 5
-' (!'<- "#! ' - 7 !
3' ## # ' Q 5*34*B:*BB * 2/0 8' '
2B ; 2 42 .= B9BJ 2' 939B2 428 53283 580 ?9 '82 <B K
3 ?92 <:9B ; 5325 B 25 . :53 .3+28 4EB28 4&952 <+ '2
32 \' D 53483 5
' ' (!'<- "#! 23 :9< /0 . :939B2
3' # # 'Q 5*34*B:*BB42/0 ' ' 2B ; 2 42
; 442. 52' BB=42
-' (!'<- "#! 23 2 E0 +92B
' ; ' Q 5*34*B:*8 B*\ :*84* &/ 0
8' ' 2B ; 2 42 .= B9BJ 2' #2B5 2 53283 5 +2 . : ; *
<+ ?942 42 8 B. : : \+2
-' E! '<- "#! 23 #(! "6
3' # Q 5*34*B:*8\4*:*84*+&/0' '
2B ; 8 42 .= B9BJ 2' #2B5 2 8.B:3 +2 :B ; 42 < B & 5K
3283 5 829+
-' (!0 <- "#! 23 ! (&"!(
' !" , - " ' ' Q 5*34* B:*8340 834 '0 "; '
2B ; 2 42 . :5 .=R+ :+:J 2' $9 ' '95 :9 <+98 29 8 :8
4 58 & 534B 29B 49 . :B<8
-' (!'<- "#! 23 4:A2:E0 :8
V ! , - : " ! - ' Q 5*34*B:*834*54*M&/0' %' '
43B4. 882 ; 253 42 & 53283 5
-' (!'<- "#! ' 23 .B2E4P0 43B: 3'
3 * (#+ + 'Q 5*34*B:*8 * *+ *4 2/0 8
2B ; 2 42 ; 442. 52' 2.3 :5 8R<= + 3 ?92 42 & 5*
3283 5
-' (!'<- "#! & "
j' ! 'Q 5*34*B:*3:* ; &/0' ' 82 9'
E2.' +28?92+8 :5 <2530 4 58 +28 :9E2B39B28 42 . 4 *
B2 0 254B2 B\ < 42 ; 253 +2 . 5 + 53283 5 4 58
3:932 8 '+:5J929B 'LL 583B9 ; 253 ; J 54 <:9B + 'J94*
B 8:5 428 598 . :53B2 5 39B2
-' (!'<- "#! 23 3: 3 /0 82.3 :5
! 'Q 5*34*B:*3:* ; 2/0 ' 2B ; 2
4& 5 3: ; 2' 882.3 :5 428 53283 58 'LL 2B ; 2 42 .= K
B9BJ 2' E 8 :5 428 < B: 8 4&952 582 53283 5 +20 \'
&2 23 4&4E .92B +28 ; 3 4B28 ?9 ' R 8:53 B2325928'
' <4B 3 :5 < 3 ?942 89B +28 429A G:938 42 & 5328K
3 5' ' ' ! B9 B2 95 598 . :53B2 5 39B2 23 B43 =+ B
+2' . :9B8 5 3 B2+ 428 ; 3 4B28 832B. :B +28
-' (!'<- "#! '
' !(I 'V 5*34*B:*M:*F*B&/0 ' ' 2B ; 2
4&= 83: B2 = 39B2+2' : ; ' 4:554 9A =2+ ; 53=28 23
9A + BE28 ?9 '52 E E253 ?92 4 58 & 53283 5 42 .2BK
3 58 ; 9A' b D
` ' (!'<- "#! ' 23 +94 <3:E P 4 ; 593 '42
Q :E0 5 ; +
3' 'Q 5*34*B *@&/ 0 8' ; ' ! 88 ' 42
32BB2 4:53 +2 :5429B B2 ; <+ 3 + ' :882 93:9B 49
; :9+20 <:9B B254B2 .2+9 *. '<+98 8:+ 42
-' 'A 6 8' .2+9R.9B4 E:9+3 B2 < R2B <:9B
&2532BB J2 23 82<9+39B2 49 . :B<8 4&952 428 5 2<.28
49 89<<+ 530 ?9' 5& E: 3 ?92 95M2 580 93 53
. : ; ; ' 4&95 JB 53 . :B<80 5:' '0 - ## # '
'S 6 8' 2882 ; G+ 53 9J929A0 +2?92+0 532BB:J4
8& + E:9+< 3 J J52B 952 < 2.2 4& BJ253 <:9B 283B2 95
428 <+29B298 \' 95 2532BB J20 B28<:54 3 52 <:9E: B
<+:B2B0 ; 8 ?9& + 52 + 882B: 3 < 8 4&283B2 G 25
; BB 0 1!- ' "'<7 # '<' "C 0 4 58
-' (!'& ## #
? " , , ' Q 5*34*B40 B42/0 # ' "'
' 6 # 8 4 58 + '32BB2' 5 3B48:B 2532BB4 23 :9G+ 4'
' 6 5G9 ; 4' 28 ; :B38 2532BB48 <B48 + 'G 3 +2'
' ' 2. :9E2B3 . : ; ; 2 4&95 3 8 42 32BB2' 532BB4
8:98 +28 44. : ; GB28 42*+ ' ; 8:5 ' LL " ' J' 23 B40
.=4 <B: : 44 ; 253 23 . : ; ; 2 8:98 32BB2' 28<2.32
9 ; : 58 & 8 +2 : + @2 89 8 2532BB40 ' '
' 0 ! ' 4 9A 4482B38 2532BB420 ' @(& '
0' ' :8 G2 9A @:9B8 ; 32BB48 8:53 <2B498 8 58 B2*

3:9B0' ' '#0 ' B?9: ?92+: 5' 42 3:930 25*
32BBN 4 5J .28 + 29A0 >2 89 8 3:9@:9B8 8258 G+2 9A
G 258 42 ; < 3B 20 'A 'R ' 2332
; 'B2 ?9' 8 3 8' <29 42 J9B20 ?9' 43 3 8' 25K
325320 ?92+28 J258 ; ; 2 42 8:5' +8 52 8 E 253
< 8 8 ' 42 ; 29B2 ' 'A ' 6 < B3'
>2 52 B: 8 <+98 5 3 ; GB20 5 ' @2' 89 8 2532BB'
<:9B 3:93+2 ; :5420 .' ' '+ '!' 388' N$9'
283 4 B:G' 3 + ' .:55 88 5.2' $9&95' =: ; ; 2 8' 8 K
E 530 95' + ; 29A ; 42. 5' .: ; ; 2 E:98 3280 E29 +2
82 4 J9 82B 9A R29A 49 ; :5420 23 325 8 2532BB 8
+28G2 9 '3 +2538 ?9& + 0 'C C' /#' 7 ' 0 N'
>& ' E9' @2 52 8 8 .: ; G 25' 42 + EB28 23 42 J25B28
4& .B B2 2532BB 8 E2:' +29B8 9329B80 58' ?92 .=2M
42 .2B3 58 <29<+28 :5' 2532BB2 E2.' +28 ; :B38 +28
.G:828 =7' +29B :53 34' +28 <+98 <B . 29828 <254 53
+29B E 20 % ' G ' ' C # ' !" ' LL%' $9'
0 25 < B+ 53 4&95' + 290 952 8 39 3 :5' G 8820 952
E92 G:B5 2 0d+2332 = G 3 3 :5' 2833:93 = 3 2532BB 2
'Q 5*3 *B2* ; 5/0 8 ' ; ' # 6 ! 82
25 32BB2' &2532BB2 ; 253 428 .= B:J528 ' LL ! 82 4 58
+ ' 8 <9+39B2' &2532BB2 ; 253 4&95' .:B<8 ; :B3'
B ; :5 28 :G82BE 28 4 58 +28 95 B ++28' :93 B 80
E 39 4&2532BB2 ; 2530 58' ?92 3:93 ! B+R0 B2 ; *
<+ 88 3 +28 8 +:58 23 + ' .= ; GB2 49 B: 0
7W0 N ' ' 2 .:B3 J2 95GGB2' G 4&95' 2532BB2 ; 253
+ ' 95GGB2 :B4:55 5.2 $&95< 8 +9J9GB2 23 +253 E2B8
& J+ 82 8& E 5.20 '@ 'E ' LL J9B20 B0 ; 52
4&2532BB2 ; 2530 J9B2 8: ; GB20 3B 832
-' # 'S 08' 2 .:B8 3 53 + 2532BB2B253 B 53
2 <23 3 3B2839 3 ' 2B253 H 3 253 9 3 E:53 ' + 0<B:K
.288 :50 S &2532BB2 ; 253 42 G B:50 H#4/! #' '
H# - " ' <' 'LLAE08' ' B23 5 ' 20 <+29B2 3:5' 28
<2B 5.2 :B ; 54 20 ' 8:5' 253 2B2 ; 253 9R2552
988 0 23 9E2BJ520 :B3& E25.20 3 5J924:.0 ?9 2B
+9 ' 8:5' ; :59 ; 2530 ' '@7# ' !#' " '
H7 'LLAE 08' 5 .2B2+32B '2532BB2 ; 253 H25 :9 882
; 253I0 3:98@:9B8 82 <2B4 ?92+?92 .2 + H4&95' <+ 530 42
<:9BB 39B2 :94& 93B2 2E252 ; 2930 :' ' ' 8
-' (!' <- ## #:
'Q 5*3 *B /0 3' ' LL 0 ! 233B2 4 58 + '
32BB2' 532BB2B 8:5' :B0 828 G @:9A' ' ; 5.2 23 + '
3RB 55 2 :53 ?92 3:93 +2 ; :542 2532BB2 8:5' BJ2530
9 (' < 'AA50' ' J' 532BB2B 42 & BJ2530 +2
4 <2582B 25' 3B E 9A0 25' B2 ; 92 ; 2538 42 32BB2' 2
@ B4 5' +9' .: 3 ' JB:80 +R' 2532BB <+98424 A ; ++2
B 5.8' LL 2B ; 2 42 ; B 52' ! 233B2 E2.' +2 +283
49 E 882 9' 5' ' 2532BB4 .28 93 ++28' LL 0 5*
=9 ; 2B0 ; 233B2 ; ' .:B<8 ; :B3 25 32BB2' 5 & ' 25*
32BB4 E2.' G2 9.:9< 42 <: ; <2' 5 &2532BB ' 8 58
. B ; :5 2' 5 2532BB2B ' E ' ?9' &2532BB2B ' ; :B3
H :+R5 .2I0 '?- /' ' ' 2+2 ; 29B30 52
; 5?92M < 8 42 + ' B2 2532BB2B 49 ; 29A ?92
E:98 <:9BB2M0 ' C4" (' /#"' 7 ' 5 0 '
5 ; :B3 8&25' ++ 3 3B 832 ; 253 &2 ; < B2B 42 8:5'
42B5 2B J 32 5' .9B4 8&25' ++ 3 J 2 ; 253 532BK
B2B .2 ; :B3 9 <+98 E 320 '% ' ' 5 0 33'
+8 5& E 253 < 8 42 ?9: ' 82 B2 2532BB2B0 '
830 +90 N' B 3:5' +9' R 53 42 ; 544 H_ ' :.B 32I
.: ; ; 253 + 8:9= 3 3 ?9&:5' &2532BB 3' .: ; ; 2 +
E:98 <+ B 0 4 3 :.B 320 8' <:9B3 53 E:98 <:9E2M
; 2 8 8 B 23 ?92 @2' 5&4.= <<2 < 8 42 E:8 ; 580
++#0 83' :52' EB280 3' BE0 < ' " C0 4 58
:9 8' ' G8:+9 ; 253' :98 + ' <B2 ; 4B2 23 + ' 82*
.:542 B .20 :5' 5&2532BB 3 < 8 ; 4 ; 2 4 58 &25.2 532
428 E ++280 % F ' '0 # ' 1<75# ' 3' E0
<' '4 584** ' LL B 2A3258 :50 8955EB2 = '
' 5:98 2532BB2B ' 3:58' 2 ; +=29B29A <4B2 ' 25*
32BB4 828 25 538' >2 52 8 E 8 < 8 ?9 ' E:98 2988 2M
2532BB4 E:3B2 ; 442. 50 ' + ' ">?#/ - ' N
5:E' CNC' ' J' $92 +2 ; :542 E: 3 <29 42 .28 2 ; K
; 28 4:53 < 3+2 8 53 9+0 ?9 0 EB ; 253 E29E28 23
448:+ 280 8&2582E2+ 882530 <:9B 58' 4 B20 4 58 +2
3: ; G2 9 42 +29B 4<:9M 23 R 2532BB253 3:93 ; :9B
=9 ; 5 E2.' .28 2254B28 .=4B 28' '?- - ' " '
H! ' ' B ; :?92B 20 25' < B+ 53 4&95' ; 442. 5' 5
G G +20 B2 ; :9B B :9 + 8828 ; :9B B' 5.:B2
95 ; + 42 ?9& + E 253 4&2532BB2B ' LLF0 2.:9EB B 42
.G:828 .: ; < B428 3 95 3 8 42 32BB2' ' ; 8:5
3: +G ' 23 +28 44GB 8 &2532BB4B253 3B2 2532BB4 8:98
+28 44.: ; GB28 4&95' 44 + .2' LL 0' G J2B \' 42 ; 29B2B
4 58 95' + 29 3B 832 23 2559R2:A' 'E293' ; &2532B*
B2B 25' <B:E 5.2' ! 8 89B 952 32BB29B ?9' <253
4 B2 54 82B4320 &2532BB2B 3:932 E 2 9 :54 4&952
B23B 320 ' #' H!75 ' '3:' 58' +: 5
49 < + 8 :4 E:98 4328 5:9BB 20 :98 +2M
G2+2 B4520 2532BB2B E:3B2 5 ' '#4- 'BE0
"' ' ' 82 4 3 428 .G:828 ?9&:5' ; 23 .: ; ; 2 25
32BB2 23 ?9&:5' 3 :9G+ 2B' ' ?9' + ' <29B 42 <2B4B2
2532BB2 +2 3 +2530 '@ 'A ' 2332 G:532
?9& 9B 3 +2 8 +25.2 2532BB42' :9B3 +2 < R80 23 E 3
49E . B ; 2 ?9& + 30 '% ' 1!7 ' LL H B2
:9G+ 2B0 2 .2B + ' B4<93 3 .5' 42 ?92+?9&95' 2< :432

E + 428 B E 9A0 + +28 ' 3:98 2532BB48' 'R ' 32+2
2 ; ; 2 ?9' 54 53 3 :9 2532BB2 8:5' ; B' 9 <: 53
?9& + 5&25' 283 3 4 58 +2 ; :542 9.952 ; 253 :50
$' ' +9' &283 .2 ?9' 4:55 ' + 29 \' .2 ; :3 42
2582B 420 :4' +2 4:9G+2 8258 283 882M E 8 G+2 ' '
?92+?9&95' 42 5:980 4 3* + \' . 520 E + <9 <B2*
3254B2' 4&2532BB2B ! ' :B52 +20 .&43 3 E:980 ; :5K
8 29B .2<254 53 E:98 52 & E2M < 8 30 ?
' ?(" ' 3' ' < ' '%13 -,4 ' * 6 : B+ ' 5
42' ' 5:98 3&2532BB:580 2 B3 4B ; 3 ?920 :9B 3:'
5:98 4 B:58 ' ; 288225 ; 98 ?920 ' C7 =7 '
' ; + 4B2 ; 253' 532BB2B +2 . B5 E +0 82 + EB2B
9A 42B5 4B28 :+ 28 49 . B5 E ' LL 532BB2B + ' 8RK
5 J:J92 E2.' G:5529B0 8:B3 B 4&95 25J J2 ; 253
E2.' G:5529B 23 4&952 ; 5 2B2 BB4<B:.= G+2 QE:R'
Q' QL C' 25 B . .=4' 532BB2B 828 82.B238'
' ' 93 2532BB2B .2+ 0 + 5&25' 293 <+98 < B+2B'
'F0 &2532BB2B0 W ' #4 ' 3B2 5=9 ; 4' 28 ; :B38 52
8&2532BB253 < 8 4 58 &25.2 532 428 E ++28 ' LL70 3B2
B2.:9E2B3 42 42GB 8 ?9' 8&4.B:9+253' ; 8:5' 8&25*
32BB ' 8:98 +2 32 ; <+2 428 G + 83 58' LL J' &2532BB2B
8:98 +28 ; 528 4&952 <+ .20 ; :9B B 25' 44 254 53
952 <+ .2 42 J92BB2' &2532BB2B 8:98 +28 ; 528 42
+ ' < 3B 20 2 < 8 89BE EB2 9A 448 83B28 42 + ' < 3B 2'
2 ; 233B2 4 58 95+ 29B23 B40 4 58 952 B23B 32
<B: :542' &2532BB2B 4 58 952 <B:E 5.20 E EB2 =:B8
42 B 80 9 :54 4&952 <B:E 5.2' ! # ' ?92 E:98
; 2 ; 328 42 E25 B \' :9BG:5 2 ' 3:93 ' 3 G4B:+*
?92 ; 8 + 5&283 < 8 54.288 B2 ?92 E:98 E25 2M
E:98 2532BB2B 4 58 +2 <+98 E + 5 + 29 49 ; :5420
' $' + ' "' . (- ' ' :+3 0' LL &2532BB2B
3:93 E 0 B: ; <B2 3:93 .: ; ; 2B.2 E2.' +2 ; :542
! :5 42882 5 5&283 < 8 42 B25:5.2B 9 ; :542 23 42
; &2532BB2B 3:932 E E2 4 58 95 ; B 0 'H' -)
" - ' ' ' '4 ; 2 8&2532BB 3 58' 3:932 *E E 5320
!+% 'C # >&298 25 =:BB29B +2 ; :542 23 +28
; 9A ?9& + 25 532 5 42 +9' <:9B @ ; 8 @2' ; &25*
32BB ' E E 5320 ' (' 50 ' 2 ; B?9 8 42
! B2<: A 8& ; :9B .= ' 42 + ' ++2 4&95' . G B23 25' +*
+2 ; J520 23 8&2532BB ' 8' G 25' E2.' 2++2 ?9&:5' 52 & '
< 8 E9 42<9 80 ' 4:' " C' * 6 2B ; 2 42 ; *
54J2' 5 4 3 ?9&95' .=2E + 8&2532BB2 ?9 540 .=2B*
.= 53 95' <: 53 4& <<9' 89B + ' ; 5 49' . E + 2B0
+ G 882 + ' 3\32 23 8& G 54:552 89B +28 \< 9+28
-' (' J 8' B' JB 53 =:59B <9 8 +28 :53 25*
32BB2M0 1& ' ' . ! ' .. A' :5J 95' 932+ G2+2 ; 253
H +8I &2532BB2B2530 ' ' LL A 6 8' B:50 4 3
= B+280 5:8 ; 8 2532BB:580 :52 < ' "%"' 953 + '
?92 8& '+' B2 8 8' :B3 \' 42 ; 2532B C 2 + E2+83 828 M 2
8 ' 2 ; ; 2 2532BB2B0 '3B283932 8\' 32BB2 B42 B 2 2 ;
GB 82B0 ; 2 42 83 + 32 + 492 + H429 +I 52 B2 52 ; 2*
52B0] ' ' # ' " 8' LL A ; 08' 3 9 253 2B\2 H+ '
B2 521 25' &2J+ 82 532* B: 80 1&# ' " ' . - ' <' '
' B2.2E2M ; :5' <\+2 B: 0 3 8 J258 B2M 42 ; 542B
& + ' ' .:B8 \' 2532BB2B 2 59+ 25 53 \' G 93 M 2B0
25 ' N ' 9 32 ; <8 ?92 +28 .: ; 2 ++28*GB 2530
$9' <:B + ' B: 49B2 8&28 ; 2530 $9' 8:B +28 .:B8 +:B
E 2532BB 530 $9&2+28 E:53 .28 5: M 2532BB 53 3 8&25
J ; 88253 @ ; B+&RE2B0 '50 NN' LLAE 08' 8 53
?9& + 52 ++: 3 <: 53 4232BB2B R8 54B20 58 <+98 3:83
2532BB2B E2.' +9R 8' = B25J9 0 ' + -"' %C
-' (!' 5' "0 23 ## 3 G:9BJ9 J' - ## 3 <B:K
E25^' 23 28< J5' - ## #3 3 + ' - ## #
bL* 'Q 5*3*B29B/0 ' ' 2+9' ?9' 25K
32BB2' :R2M .28 B23B 328 H ; :5 83\B28I 428 <\+2B 58
49 G 25' ; :9B B0 4282532BB29B842 ; :B380
H - ' E ' # 0 LL+' 8&2 ; <+: 2 + 2 <+98 8:9E253 4 58
+2 83R+2 G 4 5' 2B3 5 .9B40 JB 54 2532BB29B 42
; :B380 9' .=.29B 88 80 B4. 3 3 +2 82BE .2 2B3 5
B 32B0 JB 54' 4 884?929B 42 .:B<8' :93 E 8**E 8
.= 53 3 988' & +.20 + ' # 7C ' 0 /#' ' "F'
' 2B ; 2 42 M:+:J 2' 5 428 5: ; 8 E9+J B28 428 4 *
4B25328 28<\228 49 J25B2 54.B:<=:B2 H. :+4:<3*
B28I0 23 <B 5. < +2 ; 253 49 54.B:<=:B2 :88:R2 B0
4 3 988' 25 :9 8829B 23 :88:R29B
-' (' ! 68' 532BB29B0 "
-' (!' <- ## #3 <B:E25^0 - # # 3 28< J5'
- ## !#
' * 'Q 5*3 * /0 8 0 ; 2 ?9' 8&4.B 3 25 3\32
4&952+233B204&95 3 G+2 9' B2 ; <B ; 2B 428 25*3 32
!" 'c 'Q 5*3*340 342/0 # ' 4' LL 0 S'
+ ' 3432 42 ?9' ?92+?92 5 +925.2 &283 <:B342' 53434
< B 428 +29B8 3B48*:4:B 4B 53280 < B + ' E <29B 49
2G BG:5' 52 28<424 42 <23 3 32 ; <+2 ?9& + E + 44*
.:B4 42 3: +28 4&:<4B 0 23 ?9' .2 @:9B*\' 43 3 : ; 4
42 3 53 42 J9 B 5428 42 B:828 ?92 5:98 25 43 :58
2534348 ? 'C4 'E ' ' :53 + ' 34320 +2
2 ; 9B0 +28 8253 ; 2538 8:53 <B4E2598 <B4: ..9<48 25
E29B 42 ?92+?9&95' ' 8 + 283 42E259' .: ; ; 2 95
=: ; ; 2 =4G4340 2<9 8 ?92 42 B39 + 2 :5' +2 E: 3
2534340 ' , # ' +0' ' E2M*E:98 G 25' ?92 @2
89 8 <+98 2534342 42 E:98 ?92 @ ; 8^ 8 E' "4N'
2839 283 253434 #"' ! ; 2 42 :9+ 5J280 " ' "NF' >2

.=4B 8 & B :832 23 @&283 ; 2 2 8820 +2 5 42 ! U
.= E2+0 253434 42 :. .20 >&25' < +2 8' 8:9E253
?9&:5' 25' 283 43:9B4 0 ' 0! ' @ ' 11'
; GR82 ' <B 5.2 253434 42 +9 * ; 4 ; 20 <+2 5' 42
E 5 34 23 42 = 9329B0 + EB4 9A 2A248 +28 <+98 =:5*
329A 42 + ' .B <9 2 23 42 + ' 44G 9.=20 ' @ '
-(' 1<75# ' 3' 0 < ' "C 0 4 58 'LI 82 4 3
988' 428 .G:828 25 E29B 428?92+28 :5' 283<B4E259'
>2 89 8 3:9@:9B8 95 <29 2534342 42 ; 28 +2.39B280
8 E' F7' + ' 434 253434 42 E:98 B2 E: B 8' ; 8:50
" ' "" ' & + 5&43 3 <: 53 253434 428 2BB29B8 ?9& +
.=2B.=2 4 58 +28 4B280 '?5 # ' N' ' B4?925*
3 3 :5 4&952 < B2532 2534342 428 E 5 +48 23 428 :K
+ 28 49 8 4.+20 # ' 0 - / ' 50 < ' "F' &283 + '
E29E2 4&95 B .=2 23 ; 29A B.= 32.320 952 2 ; ; 2
2534342 42 5:G+28820 ' ' ! ' .= ' + : ' 2
<29<+2 <B4E259 283 253434 42 .28 E 8 :580 9
.45' #! ' 0 < ' M' &:5 5&25 283 < 8 ; : 58 25K
3434 42 + ' < B9B20 42 + ' :B3952 0 428 ; 982 ; 2538
'1 # ' , - ' 7 ' 5 = : ; ; 2 253434 42 &4+4*
E 3 :5 23 42 + ' :B3952 0 5' :B' .5 " ' " ' !d'
#25B' 0 54 4 58 .2332 82.32 ?9& + ; 3 8 58 43B2
253434 4& 9.9520 9 '+!7 ' ' M' # : ; ; 2 <+98
253434 4& E: B +2 .= <2 9 42 . B4 5 + ?92 42 8:932*
5 B 952 G9+20 " ' ' C' 93B2 ?9&952 JB 542 < B*
3 2 428 J258 42 + ' . ; < J52 43 253 25.:B2 4:+\3B28
23 2534348 4&952 B2+ J :5' JB:88 4B2 .: ; ; 2 29A* ; 4*
; 280 M' .! 'AA' >2 E: 8 95 @2952 =: ; ; 2
253434 42 .= ; 4B28 \' ?9 '3:93 44<+ 30
. - ' "C' LL 0 G8:+9 ; 253' $9' 3 253\' 828 E:+:5328
\828 44280 8 58 25 44 ; :B4B2' 5 E 2 ++ B40 95 25K
53 253434' LL 9G83 53 E2 ; 2530 &283 95 2534340 952
2534342
-' (' $- #' %G4' 5 283 253434 ?9 54 :5
8&283 ; 8 ?92+?92 .=:82 4 58 + ' 34320 ?9 54 :5 8&283
253434 42 ?92+?92 .=:82' 5 283 34390 ?9 54 5 39*
B2+ 2 ; 2530 23 8 58 E: B 434 253434 42 ?92+?92 .=:820
:5 3 253 \' 828 E:+:53480 \' 828 4428' ! 80 4 58 &9*
8 J20 253434 82 B <<B:.=2 32+2 ; 253 42 34390 ?9& +8
82 .:5 :54253 &95 23 & 93B2
!" !"' Q 5*34*32* ; 5/0 ' ' LL " .3 :5
42 82 <:B32R \' + ' 34320 4& 2.32B + ' 3432' &253232*
; 253 < B 428 < B 9 ; 8' LL 0 J' 3 3 4&95 28<B 30
4&95 .:23 B0 4&952 \ ; 2 2534342' >& ; 2 + <:48 2 E2:'
253432 ; 2530 ' #-' 5' 50 ' 52 9882 J+: B20
95 9A 28<B 3 42 B4 :B ; 20 952 9882 B2+ J :50 95
253432 ; 253 42 < B3 0 23 +28 E29J+28 < 88 :58 ?9U
& ..: ; < J52530 8 ' , #' ?5 # ' . ' jBR ' $& ' 434
93B2 : 8 ; :5' 253432 ; 253 .: ; ; 2 + 283 +2 E43B2
; 8 + R' 3B: 8 .G:828 \' .:58 44B2B ' ' ' '9'
2 \' +28 253432 ; 2538 25 E29B 428 9580 42+\' +28
442= 52 ; 2538 G M BB28 .253B2 +28 93B280 " !
:9 0 D! 7#' 5 7/)-' ' ! - ' E0 < ' "CF'
5 32 ; '8 '434 ?92 +28 3 58 43 253 ; :42B5280 23
+:B8 +8 82 <+ J5 253 42 &253432 ; 253 ?92 &:5' E +
<:9B +28 B228 ?9' 43 253 +28 5. 2580 '
/# ' -(' !"' U<75# '-.' < ' ')M' 4 58 * +
' :55 88 53 &253432 ; 253 ?9& + E + <:9B +2
05: ; ' 4&4B94 3 :50 ' H# ' ' 28 429A 25K
3432 ; 2538 42 .2332 42B5 4B2 H4 ; 2I 43 253+ ' 4 582
23 + ' < B9B20 " ' ' A' ++2 .: ; ; 25. 3 \' B2*
E25 B 42 &253432 ; 253 ?9' E 3 8449 32 25' 8 '
E29B0 " ' ' 2+ 283 9@:9B4&=9' &2 B3432*
; 25349' 8 4.+20 42 8&R B2 428 <+ 58 42 B2+ J :50
? 'C ' 5 52 B2E 253 J94B2 42 &253432K
; 253 42 + ' 5 88 5.20 "' ' ! ') ' :+2
:< 5 \3B234 ?92 <B:49 3 &253432 ; 2530 9 '+ '
"'1!- - ' '@9 ++' M)A' >2 5& ' < 8 253432 ; 253
428 JB 5428 ++ 5.280 9 1' >< # 75 ' 8.'
"' ' 82 4 3 42 .2+9' ?9' 283 95 :G@23 4&253432*
; 453' 0 \' E:3B2 \ J20 E:98 4 28 8' E ' 23 8' ; <4*
3929A0 ?92+ 5: ; 0 =4:G +40 3* E:98 4&95*
52B 4 58 E:3B2 @2952882 0 23 +:B8?92 E:98 43 2M + '
.:?92+9.=2 23 &253432 ; 253 42 .2B3 528 2 ; ; 28 C '
)?>&' '9NBF 33 .=2 ; 253 2A:288 '4&952 <2B8 552 \'
828 :< 5 :58' 25' 5&4J +2 253432 ; 253 42 .2332
2 ; ; 2' 93B2 ?92 253432 ; 253 283 < B3:93 E . 29A0
+ 52 + 882 @ ; 8 +2 .:29B 4 58 952 4 8<:8 3 :5' < 3*
8 G+20 < B.2 ?9& + 283 3:9@:9B8 ; < 3 253 23 E :+2530
'0 - ' 0 < ' YB ' 2552 B2882 ; G+2<+98
\' + ' E E2 <2B89 8 :5' ?92 +2 ; 9E 8 253432 ; 2530
' ' :&-' ' G+2882 ' ; ++2 : 8 <+98 4& 5.:5*
E45 2538 ?92 253432 ; 2530 r' " ' '?" ' '
, & !" ' 3' ' +233' M' < ' " M' 4 58
' ?' < - #
'Q 5*34*34/0 5' ' LL 0 250 <+ B + ' 3432 4 '
E <29B8 ?9' 5. : ; ; :4253' 28 .=4EB2 29 ++28 52
; &25343253 < : 530 8 E' ' "" ' LL G8:+9 ; 253' 2 .= B*
G:5' 253432' LL 0 J' :B32B \' + ' 3432 428 9 ; 428
4&:B' 2 +0 42 E 5 340 23.' ' JB 5429B 253432' '
?9 + 34 2534320 23 3:98 828 253B23 258 2 8:53 ?92
42 .=2E 9A0 4&4?9 < J2 23 42 .= 2580 'C '--
N' 3 42 ?9:' E:98 82B3 4:52 4&43B2 9<B48 4&95

[illegible]

+3 0 + 'Q 5*3 _0 33 32 ; <8 42 = *
+23 ' B ; ; "FF0 2B 82 <B:5:5' 3 4 58 '3 2 B'
2: ; 52 4 58 ' ! E2B/0 4 'P' LL36 9' '3:9328 828
< B3 280 3:932 8:5 325492' 95 E2B8 2<3 2 ' 2
J 332 9 283 25.:B2 253 25 9 .:B<8 4 ' JB 54 ' 53*
9 39*; 8 ?9'52 42 '< B38 93B2 ; :33 ' B283 '
4 54+28 <+ 28 42 B8 ' 4 8<2B82 < B3:93 828
; 2 ; GB28 23 84 J+: B2 3 B' 52 +9' + 88 0 B 25
4 253 2B ?42 +2*2 ; 9B0 '<VQ < 2 42 ++ 538 90 "N% '
2B8:5?2 H<23 4 53 952 / 3 2 52 8253 3 95 3B2 ; *
G+? ; 253 42 32BB '?9' BB B ' 4 58 .2332 .:53B420
023 ?9 'B25B2B8 4G ' +28 253 4B280
':520 HD \ ) 6 0 <'6" 0 4 58 ' L 2B ; 2 42
* ; 3 <?92 * 2 4 3 428 h2: +28 23 428 <43 +28 4:53
+ '. B.:5 4B2522 283 5 5. 8425 42532+42 'LL 2B ; 2
42 4:48+34' # : ; 2 + J2 253 2B0 E 88 + ?9' 5 28'
33 .=4 < B +2 82B ; 253 42 44+34 ?9 4 9 5 82 + 82 K
J529B' ' JX 9 5 283 < 8 .=_3BN' =2E + 253 2B
U ' " 2B ; 2 4 B 3= ; 43 ?92' 5 34 253 4B20 .2+2
05 <4 ?92 < 8 42 B .3 :5' +L ; GB2 253 2B0
9U930 5: ; GB2 ?9' 52 B25 2B ; 2 ?92 428 95 348 25*
3 4B2" ' ' J' '82 4 3 428 .=:828 G83B 3280 ; :K
B +280 ?9 '8253 4 58 +29B 3:3 + 3R' 52 253 4B2 .:5*
5.2" 52 253 4B2 542<25425.2' 52 8:9 ; 88 :5
253 4B2 +2' 25E 8 J2 253 2B H5 :3B2 ; +G29BI0 ; 8
@ '5+ 5' B4 ; 8 <: 530 ' '50 ' LL 6 $9' 5
< 8 8?G' 42 4 ; 593 :50 42 44.=230 42 ; :4 . 3 :5'
U ; G: ; ; 2 4 952 B4<93 3 :5 <29 253 4B2 *8 9'
0 6F70 ' ' G982 42 .2 82.:9B8 H+28 . + ; 5381 8'
' 2 43 3 25 G982B ?92 42 2 ; <+:R2B 4 4 ; 592B 828
<'528 2+ 4 .:582BE2B <+98 253 4B28 +28 .9+348 4 2
8:5@3 ; 20 ' D7(=7 ' LL '?9283 :5 B2832
253 4B2 0. 283*4*4 B22+ 2 5 283 < 8 B48:+92 493:930:5' '
0 B4<2 4 '4 428 4 .9 48 ..288: B280 ; 8 5:3/ 4 + '
E4B 34G+2 ?9' @8 3 +2 :54 ; 4 ; 2 42 + ' ?9283 :5'
'3*. 2'?92 +28 . : ; 4328 ^+28 5. 258 <258 253 ?92
. 43 253 428E <29B8 ; 48 :G82BE 3 :5' ' ; :53B4 ?92
? 43 253 428 .:B<8 G 25 9 42+4 433.2B.+2 42 + '+ ; 2*0
'?9283 :5' '.= ; J4 42 .20 ; 8 2+2 B2832 253 4B2'
0 ' 28 .=:828 528:53 <+98 253 4B280 . 283*4*4 B2+28. B*
2:583 5.28 52 8:53 <+98 +28 ; 4 ; 28 ' LL # 2 3 882B B 25
4 253 2B03:9.=2B 4 3:930 55:E2B 25 3:3330 .G 5J2B3:93'
+ 93 952 93:B 34 ' 93B2 ; 2530 + '4 :35<3 :50
0 J5:B 5.20 28<B 3 42 .:53B 4 .3 :5 52 + 882B 'B 25
4 253 2B < B ; '+28 G: ; ; 280 '0 - '?#4 '"6
U 4 2M*E:98 42 .28 4 5J2B29A 28<B 380 42 :28 G B4 8
5:E 329B80 25 95 ; :3 428 : 5 2580 ?9' G 2=3430 8'
:5 +28 4.:93 30 52 + 882B 253 B 25 4 253 2B 4 58+ '
B2+ J :5 .=B43 25520 5U' B' & / ' 0)'6F' LL '$9'
; 53 253 253 4B28 828 4428 828 :+:532 ' 283 95
G: ; ; 2 253 2B' 5 3:58 828 8253 ; 2538 2+2 283 882M
253 4B20 'T ' ' " '50 "0 +98 253 2B
?92 @ ; 8 25 825 ; < 4340 '# ' 2 'E0 C' 2
E 29A <+ 429B0 ?9: ?92 5 +2A G+2 23 253 2B <B28?9 9*
3 53?92 8:5 4E2B8 B20 50 '<9 B48 832B 4 8.254 53
?9'5:98 '3:58 89G@9J948 B'B' :988' K ' E0 N'
' 2B ; 2 42 ; 54J2' =2E + 253 2B0 .2+9 '?9' B2K
982 42 3:9B52B' '<293 43B2 253 2B 4 952 ; 5 :9
9A 429A ; 580 89 B 53 ?9 + ' 42 + '<2 42 4 3:9BK
52B 4 95 829 .434 :9 428 429A .4348 'LC6 ++ 82 @: 53
4 :93P.2 ?9' +9' 4:552 <+98 42 :B.2' 2 < R8
3:93 253 2B 82 8:9+2E ' 'G 52 89B 398 3: ; G2B'
3:93 253 4B20 ' ' +90 0 LL 2332 B20
.2332 +:5.3 :5 :A J2 95 G: ; ; 2 3:93 253 2B0 . 483*4*
4 B2 2+2 2A J2 3:9328 +28 :B.28 23 3:93 +2 32 ; <8 4 95
G: ; ; 2 $9 54 <:9BB:53 +28 529 '8. 9B80 +: 5 428
.:9B8 23 428 E ++280 '! ..9<2B 3:93 253 2B0 23 ; <*
<B254B2 428 . 29A 28 4 E2B8 ; :9E2 ; 2538 5?:5 98
4 *R29A ' 8 / 'A 0 6 ' # :93 2G3 2B 40
95 ?92 ; 253 :..9<4 42 EB4 3:93 253 2B 4 ; :5 5:9*
,E2 9 J: 3' 2 52 E EB2 @ ; 8 <:9B 8: '23 4 43B2 3:9*
@:9B8 3:93 253 2B 9A < 88 :58 4 95 ; 3B20 = '# '
: + ' ' E: 3 '34 ; : J52B < B 4 ?9 +283 3:93 253 2B
4 '2= B ; 280 5' : ; 32882 4 82' '>2 E: 8 3 3 ?9
253 4B2 5 82.:9B8 42 8:5 +80 7' 344 E0 "+L 2
+ EB2B 3:93 253 2B 40 82 4:552B 3:93 25 2B 40 82 4:5*
5WB0 .:58 .B2B 3:93 8:5 32 ; <80 82 44E:332B 4 ' 82
4:552 3:93 253 2B 4 43942' 2 4:552B 3:93 253 2B 4
8:5'< R8 LL 5 4 3 4 5895 ; 4 ; 2 8258 82 4:552B 25K
2B' ' ('B2<B:.=2 882 ; G+420 B <:+:J92 B2*
E2 ++420 2 4:552 253 4B2 4 :B 329B0 ' ' :G+'
E ; 0 ' ' ! :9B B 3:93 253 2B0 ; :9B B 8 58 + 882B 42
<:834B 340 42 8:9E25 B0 42 B25: ; ; 42' :94B 8*@2 '
2 + 882B 9.95 5: ; '23 ; :9B B 3:93 253 2B3 '
I" ' ' ' ' 5 95 93B2 8258 +2a3 :B3 3:93 25K
3 2B0 3 283 ; :B3 E2.' 828 .9+348 253 4B280 E2.'
3:9328 828 .9+348 LLF6 # ' '3:3 + 340 2582 ; *
G+2 4 952 .=:82' 2 < 88 J2 283 B <<:B34 4 58 8:5
253 2B' ' 5 8:5 253 2B0 4 58 95 23 3 4 534JB 340
53 .30 4 58+2 ; 4 ; 2 43 3 ?9 9< B E 53' #2 ; 233B2
+28 .=:828 25 +29B 253 2B' 2 5 43 3 < 8 952 2A<+ . *
0 3 :5 ?9'+ 88 3 25 8:9 253 2B +2 :54 49 ; R834B20
B ' B2B+' "' 2 B3=49:5 9G8 834 4 58 8:9 25*

3 2B @98?9 25' "NFC0 ' - ' "F7' LL7 ' 2B ; 2
4 B 3= ; 43 ?92' 5 253 2B0 95 5: ; GB2 253 2B' LL+ 0 2
; :3 ?9 ' 3 +2 89@23 4+952 .= B 42 23 ?9' 82 4 E 82
+2 <+98 8:9E253 25 429A < B3 28 5: ; ; 428 +2 <B2 ; 2B
23+2 42B5 2B' 5 4 3 9883@23:93' LL ' 5 253 2B0
95 .=2E + 253 2B' LL F' 5 253 2B0 ! ' "5' 53 4*
B2 ; 2530 .: ; < 432 ; 253' ' ' B4. 34 +2 ; :B.2 9 25
253 2B' LL 2B ; 2 42 4B: 3' 283 393 :5 25 253 2B0 E:R

- ' # ' '"' $ ' 52 .=:82 283 253 4B2
+:B8?9 2+2 5 283 5' ; 93 420 5' GB 8420 5'< B3 J420
23 ?92 3:9328 828 < B3 28 8:53 @: 5328 23 882 ; G+428
4 2 B B ?:5 4:53 2+28 UV 253 43B2 '2+2 283 . : ; *
50232 +:B8?9 + 52 ; 5?92 B0250 23 ?9 2+2 '3:93 .2
54 +9' .:5E 2530
- ' # ' S 6 F' 23 58 . :.<+ 8 23 253 2B8'
. ! - ' <6 " ' > ' . + 4 8< J52 5 28.= <2B:53 25K
3 2B0 '<' FF' 25 H@2 <2 882 ; '@: 2 E: B 25*
3 2B2 28J B42B0 42 E2: B0 1 ! 7('AE 5' '325: 3
95 28< 4 4:53 + '= 532 283 253 2B2' @ B 'A' 495.'
25 . : ; 25. 2B253 + ; 983 2B ; 252B ! 8 < B ; '
B253 2B ; 9B +9B 283:E2 3 H ++29B ++ 3 842B0 '< B
+28 G9 8 2B ; 2M0 8 + E:+8 88253< 882B0 , & A # '
""N' 'A9 6 8' 3 +28 B:5.28 5 :53 < 8 + 884 8 'B:G2
253 2B20 D # ' ' $9' E2+83 + 5.G2 +29B + '4 ; 2
9 .92B H.:29B 253 2B H2A.2+2531 0 ' .AA A' ; 20
E: . 0 + 283 ; 28 8 B2 >2 89' 8:5 = : ; 2 + J2 25K
3 2B80 ' .! ' 4 58 59 ' ! "7 ' LL A E '8'
3 B2?92B: 253 ?92 + ' .=:82 983 J B442 253 2B2 @98*
?928 ' + ' E2592 42 +9 0 ' ' N%0 5 # ! '
S 6 8' + .:5E25B: 3 < 882B < B + ' :B.2 42 <+9*
8 29B8 82 J529B80 ?9' 52 8:53 < 8 8 253 2B8 52 8'
+:R 98 98 2GB283 258 . : ; ; 2 + 42 882530 5:' '
- /# #' ' E2B39 23 <B:2882 428 ?9 3B2 .=2E K
+ 2B8 283: 3@:2982 G B2J B42B ; B 8 58 =2 9+ ; 28 23
8 58 28.9M 283: 253 25 283 530 +2 3:R 2B.2 :B2830 +2
B:R R:552+0 +2B:R 4 2B0 23+2 .=2E 28 4:B4 8:5
B2B20 ?9' 5 E: 253 4 253 2B8 ?92 +28 .929B80 0 #)
!# ' 3' E0 6 F" LL AE '8' 42+2 ; 253 B2<B2825K
32B +28 .=:828 25 +29B 253 2B0 ' 0%F' > E: 8 952
8 534 2B ; 2 23253 2B20 5U' 0 "7N' :98 <<2+:3 8 95
.=2E + 253 2B0 ?9' 2B '23 9B2 +20 5 '0 NF' # B3 98
283: 3G: ; ; 2 :9E2B3 42 8 '5 39B2 23 253 2B0 23 ? + 52
+28.= 88: 3 @ ; 80 '1 !# ' 5 32 ; <2B 5.2
23 5233234 42 ; 580 <:9B 52 82 + 882B <: 53 .:B*
B: ; <B2 < B BJ2530 + 82 <29+3 ..: ; I e 2B 9A
<+98 E2B3929A0 <+98 5238 23 <+98 253 2B8 H 534JB28I
428 B2.80 +: '? ' '1 !# ' ! '% ' + ; ' ; 29+A
.?92B B + 'B2<93 3 :5 4 =: ; ; 2 42 G 250 E ++ 530
25 2B 234B: 339B 2B0 '0 C ' " =2E 9.= 53 952
; 9+2 253 2B20 ? ' - ' ; 0 ' 2 G B 5J929B
93 2B ; 2 23 253 2B "+ 3:+2B 5.2 428 B2 :B ; 2M0 5'
K ' " F' >2 52 89 8 G: ; ; 2 8 ' 253 2B 25 ; 28 :< K
5 :580 ?92@2 52 B2.:55 882 . +2 ; 253 ; 9320
R E ; 3 253 2B 23 B:93 H B .3 :5 2582 ; G+2 ' ' '
$ ' :.# 0 ?# =7 '6'
' ' :9BJ9 J' - 3 <B:E25.' - # ' -)'
'25 23B . 3 + ' - #3 28< J5' 23 3 + ' - #!3
- ,2+4>' - #!3 %4 + 3 5 - /#7 'Q E2.' : .253
42 +2/0 253 2B QE:R' @
3' ! 'Q 5*3 2B*82* ; 5/0 ' 2B ; 2
42 4B: 3 .:939 ; 2B' .3 :5 42 8 8 B 952 .=:82 ; :*
G + 4B2 23 42 + ' ; 233B2 25 ; 5 3 2B.2
- '# 'S 6 8' 2 2532B.2 ; 253 42 E ' 2 B H42
G43 +E E 531 +! " ' 930+' R
3' 'Q 5*3 4B*84/0 5' ' 2B ; 2 42 4B: 3
.:939 ; 2B' ! 233B2 25 ; 5 3 2B.2
' 5' "0 23 32B8
! "* 0 ! " 'H 5*3 4* 2 ; 5/0' ; E' 952 ; *
5 4B2 253 4B2' 2 + EB2B 253 4B2 ; 253+' 43942' ' 283
253 4B2 ; 253 :9G+ 4' + 283 253 4B2 ; 253 42 ; 28 ; 8'
2 8: 5 ?9 2+2 42E 3 E: B 42 8:5 G:5529B 2442 25K
3 4B2 ; 253 9 8:9E25 B ?9 23+2 ' 42 82 ; ' ; :9B0 ?)'
" '@ - - ' 7# ' 1 " ' 28 G: ; ; 28 8:53
9@:9 3 =9 '32+2 ; 253 .:BB: ; <980 ?920 52 <:9E 53
+28 B2 E25 B 4 5: 898 + 93 G 25 ?92 5:98 + :58
G25A0 93B2 ; 253 +8 5:98 ?9 332B 253 +8 2B 253
< 80 +8 8 G 54:552B 253 253 4B2 ; 2530 '0#!)'
A- 'N' T
- ' IJ8' ' ' 891)'>+5 4B2 ; 2530
4 952 ?:5 253 4B2 25 253 2B0 8 58 ?92 B 25 ; 5K
?92' 53 4B2 ; 253 82 B <<:B32 G + '?9 34 . : ; <B 82
4 58+2 E2BG2 25 253 2B 82 B <<:B32 G :G@23 '+ '
8 : ; 2 283 253 4B2 ; 253 < R42 + ' 8: ; ; 2 25 253 2B
283 4 58 +2 8 .
' '# 'A5 'Y' H ; :9BI $9'3:93 ; 2 4:52 G E:98
253 2B2 ; 2530 1 ! 7('AE ' LLA 9 8 'H +8I 2<9B253 952
; 2882 253 2B2 ; 253 : B0 D # ' H ' 3 4 8253 G.2+8
42 + 2 8 ?920 82 + E:9+: 253 B254B2 B 83:<+2 253 *
B2 ; 253 ' ' .9258 H+2 . : ; 32I 23 3:93 ' 93B2 <B 6
8:5 H<B 8:55 2B8I 82B: 253 42+ EB40 '58 '
AAE5 '#O d ' 28+: 3 ; :5 . 2 B ? 2 @ :B*+:55:R2

:9B E2.?928 E:98 42 ; :9B2B0 '?9 '@2 89 8 253 4K
B2 ; 2530 #' 5 : 'D ' "
- ' (! ' < - # '23 +2 89 +A2 - 3 <B:E25?'
- # -3 . 3 + ' - # - 3 28< J5' - # - ; 3
3 + ' - # -
'Q 5*3 *34/0 8 ' 2B ; 2 42 <= +:8:<= 2
8.:+ 83 ?92' 2?9 ' .:583 392+ 28 8325.2 4 952 .=:820
2A 8325.2 .:58 44B42 . : ; ; 2 4 83 5.32 23 544<25*
4 532 42 + ' .=:82 ; 4 ; 2' 93B28 8:93 255253
?9 + H B 83:32I 253254 H< B :B ; 2I 952 253 34 89G*
83 .3 2+20 B42+2 ; 253 4 83 5.32 42 + ' ; 3 4B20 '
?# ! ' : .' .2 ?9' BB E2 :B4 5 B2 ; 253 9A
<= +:8:<=28 + 8 E: 253 ?92 ?92 2 23 5:9E2 9 +8
; J 5253 988 343 952 253 34 5:9E2+2 <:9B +2
<B: 49 B20 ' . (&' 0 F' + 283 G 25 <+98
. : ; ; :42 42 89<<:82B 4 58 +28 .=:828 952 B4 *
+34 4:53 :5 B2J B42 +28 ; :38 . : ; ; 2 +28 E4B 3 G+28
8 J528 4 253254B2 < B +28 5: ; 8 G: ; ; 20 5 ; +0 23.'
952 253 34 ?9' 4432B ; 52 23 4 83 5J92 .28 .=:8280
?92 42 B2 33253 :5 G 3:9328 +28 4428 8 ; <+28 ?9'
<29E253+29B << B325 B0 '1!- - '&7 '82.3'
1075#'3' 0 <' C0 4 58<:9
- ' (! ' 8+ 3' - ' 42 - ' 43B20 < B*
3 . <2 <B48253 49 E2BG2 ' 43B2
3' 2 # 'Q 5*3:*84* * /0 ' ' 2B ; 2
4 253: ; :+:J 2' 52 428 < 4228 42 + '3432 428 =2A *
<:428
'"U ' "P0 25 424 580 23 A2< S'0 3432
' " 0 S 'Q 5*3:*4 *8\ +0 8\ * /0 4@'
2B ; 2 42 G:3 5 ?92' $9'283 8 394 25 424 58 49
4 8?92
' E3 .0 25 424 580 23 " =7
'Q 5*3:*J *83B /0 35' 2B ; 2 4 25K
3: ; :+:J 2' 52 428 < 4228 42+ G4: ; 25428 582.328
- ' (! ' EA4 0 25 424 580 23 R: B3 <0 E253B2
'Q 5*3: *+ *@ /0 8 ' 'L@ ' .3 :5 4 25*
3: +2B +2 B489+3 342 .2332 .3 :5 + ' 3: +2 4:53 :5
8 283 82BE '<:9B 253: +2B '> F ' 482 9 9?92+:5 .:94
952 42532+ 2
* ' (! ' < - !A #
0 c 'Q 5* : *+40 42/0 <:B ' ' 52
283 ; <2 253: +42
+ $ V 5": *+4/0 5' ' / 6 5 B 42 3: +K
?92 ?92 .=:82 42 <+98 4J2B 23 42 <+98 5'<:9B +2
325 30 +2 J B 53 B 4 .. 4253' 53: +2B 952 . B320
.283 3 .:+32B 89B + '3: +2' LL F' 2 ; 233B2 42 + '3: +2 G
952 42534+2
- '# 'o I' 8' 3 8:5 ; 532+ G 5 :B 253: +3230
: : 9+ " '1 ' ""
' < - ' '23 !
3' 'Q 5*3: B/0 ' ' R5 :5R ; 242 JB2 : B0
?9'283 9@:9B4 =9 '+2 829+ 98 34
- ' (! ' < - #
'Q 5*3: *M *@ /0 ' ' .3 :5 4 25*
3: 82B
J 'Q 5*3: *M4/0 5' ' 8< :82B 428 ; *
34B 9A 42 ; 5 4B2 G . + 32B :<4B 3 :5 49 3: 84
.2 ?9'82 4 3 9@:9B4 =9 '2 ; ; 43B2B
-b (! ' < - ' "0 23+ :382
3' ! $ 'Q 5*3:* ; *\ /0 ";' 2B ; 2 42 M2:*
+:J 2' $9' 'B <<:B3 9A 582.328
' ' :R'
3' ! ' ; :3 ?9'8 J5 2 582.32 23 ?9'283
+2 JB2.' - ! / !5' 42 4E0 250 23 :<50 82.3 :5' 5K
82.320 <B:<B2 ; 253 42= 52B40 4 E 84 25 0 23 < B*
3 .9+ 4B25 2530 . 0 4 E 84 25 3B: 8 < B3 280 + '34320 +2
.:B82+23 23 G4: ; 25
3' ! " - - J 'Q 5*3:* ; :*@4*5 '0 ";' 2B ; 2
4 G 8+: B2 5 39B2+2' $9' 82 44E23:<<2 23 E 3 89B + '
.:B<8 428 582.328 ; :B38
' "U6 '< - ! ! 23 E8E .0 54
B ! # 'Q 5*3:* ; :*JB * /0 6 ' ; ' 2*
+9 ?9' 8 : :.9<2 4 253: ; :J. <G 2
3' ! # 'Q 5*3:* ; :*JB * +2/0 ' '
! : B2 428 582.328
0 - ' 0 (! ' < - ! ! 23 R< ' 8 E0 442B B2
3' ! " - - * 'Q 5*3:* ; :* *4 /0 ";' 2B ; 2 42
M:<+:J 2' $9' B2882 ; G+2 G 95 582.32
' + '< - ! ! 23 8+ : P0 :B ; 2
3' ! # 'Q 5*3:* ; :*+ * /0 ' ' 582.32
:88 +2' ' 2BB2 R 53 428 2 ; <B2 5328 4 582:328
- ' (! ' < - ! ! '23ScN:W0 < 2BB2
! J* 'Q 5*3:* ; :*+:*@ 2/0 ' ' B3 2 42
+ 'M: :+:J 2 ?9 '3B 32 428 582.328
- ' ! ' :5523 4 3 I1 ! - ' - ' <75# '
3' E ; 0 <' 7"0 4 58 7 G 'W > '4:554 +2 5: ; '
4 582.3:+:J 2 G .2332 < B3 2 42 =G3: B2 5 39B2+2
?9' '+28 582.328 <:9B :G@23 .2+9' 4 253: ; :+:J 20
?9' 283 3:93 JB2.0 . :5E25 3 ; 29A 8 58 4:9320 22
:5 'B2 ; B?94 ; 8 8 'G BG B .' ; '2 B R4 ' 9*
9B4 G9 ' - ! ! ! / '?9'283 829 .:BB2.30 283 25
'2 5 98 J2
- ' (# ' < - ! ! '2 S:R:.0 3B 34
'o ' ;

' ' ' $- ' $ %

' -

$ ' Q 5*3:* ; :*+:*J *\&/0 4; ' $9'
<< B3 253 ?9' 'B <<:B3 ' &253: ; :+:J 2
! 'Q 5*3:* ; :*+:*@ *8 /0 ' ; ' 2+9'
?9' 8:..9<2 4&253: ; :+:J 20 42 &43942 428 582.326
3' ! # 'Q 5*3:* ; :* * &/0 "; ' 2B ; 2
42 M::+:J 2' $9' E 3 4& 582.328
' D- ! ! 23 & / 'QE:R' .2 ; :3/
! # ' Q 5*3:* ; :* * D/0 6' ' ; K
329B0 .: 2.329B 4& 582.328
-' (!'<- ! ! '23 ;
3' ! # ' Q 5*3:* ; :* :*B&/0 :4@' 2B ; 2
4 4 .3 ?92' $9' <:B320 ?9' .:53 253 428 582.328
*' (!'<- ! ! '23 ?9' <:B32
3' ! ! ' Q 5*3:* ; :*83:* ; &@0 "; ' 2B ; 2
42 .:5.=R+ :+:J 2' :53 + 'G:9.=2 :9 &: E2B39B2 283
".= 5.BN2
-' (!'<- ! ! 23 V N< W0 G:9.=2
3' ! 20 ' Q 5*3:* ; :*83B *840 842/0
"; ' 2B ; 2 42 .:5.=R+ :+:J 2' $9' '952 .:?9 ++2 42
<+98 29B8 < =.28
' -' (!'<- ! ! 23 4: <2:E0 .:?9 ++2
' ! I ' Q 5*3:* ; :*M: '*B/0 ' ; 2B ; 2
42 M::+:J 2' : ; ' 428 5 ; 9A :B ; 530 4& <B=8
+ 5E ++20 95 2 ; GB 5.=2 ; 253 ?9' B4<:54 9A 5K
82.328 23 9A E2B8 42 5540 9A 552+48 42 ; B.\
' '<- ! ! '23 Q9 < :E0 4 ; 593 '42
.%:E0 5 ; +
' Q 5*3:*5 * &/0 6b b .3 :5 42
; 233B2 95 + ?9 42 25 3:552
-' # 'S 68' 53:55 J20 7
' '<- !-- #
' Q 5*3:*5=*MG5/0 ' ; ' .3 :5 42
; 233B2 25 3:552 9' ' BB E2 882M 8:9E2530 <B 5*
. < +2 ; 253 4 58 +2 >9B 0 : 3 +28 E254 5J28 82 :53
E2B8 +2 % :.3:GB20 8 8:5 44@\' B: 42 23 <29 E:K
B G+2 =+' 2B ; 253 3 :50 ?92 +2 E 5 283 25.:B2 4:9A
9 ; : ; 253 42 &253:55 8:50 '?("' "'
'1! '# -"7 '3' E ; 0 <' "N
%' !"-!! ' ' Q 5*3:*540 542/0 #' '
4&253:552B "' ! 8 25 3:552 9' 9'.4B2 253:554
'Q 5*3:*540 542/0 < B30 <: 44&25K
3:552B ' ! 889B+23:5' 5'.:9<+23 J 2 ; 253 253:554
3' ! ' Q 5*3:*52* ; 5/0 ' ; ' '.3 :5
42 ; 233B2 25 3:552
'6 'S & 8' 4 32 .:9B <2B ; 230 984 '?928*
329B80 <B48 +2 <B2 ; 2B 253:552 ; 253 30 42 9J2B
:9 8:542B+28 .9E280 +:3328 23 G .?9238 4284 38 GB 8*
829B80 <:9B 283 ; 2B ?92+ 5: ; GB2 + <293B2832B '
253:552B0 1!7#' " ' " ' "' D - 0 BB43 8:'
; B8 "%"
' '<- !-- #"
"' 0 Q 5*3:*54/0 :' : ' LL &'(2B82B 952 + K
?929B 4 58 95 3:554 9' LL 6 J'23 G8:+9 ; 2530 '25*
3:552 G 250 +G: 3G 25' 'J:BJ2 ' ' :B.2 4&253:5K
52B 82 3B:33E2 95 <29 J43420 6] '@ (!-" '# !- '"'
\'H - ' LL 6 &253:552B0 E' # ' &25J:9 B2B
E2.' ; <439:8 34 4 58 95 + 29 43B: 3' 2 E253 8&25*
3:552 4 58 + 'E ++42' &253:553 ; 3 4 58 +28 39R 9\' 42
.=2 ; 5420 'A !#'C
-' # 0 M9 6 8' 53 25 253:5253 < B + ' J:9+20
' ' 2 E253 8&253:552 25 + 'E: +20 : ; E 9 0
<' "' 4 58 ' ' AE 6 8' 52 .B2982 .:?9 ++2
23:B82 < B +2 G:93 23+ BJ2 ?92 8:9E253 58' ?9&95
+ J2:+23 + 253:552 42 E253' + 5& '8 3:83 424 58 25*
3:554 8:5 = +2 520 $92 ' 'F"7' :B8 +2 8:B3 53
_93:93 42 + '.9E2 <:9B &253:552B0 :' ' ' %3
-' (!'c5'"0 23 !--
' Q 5*3:*54/0 :' ' LL !233B2 95
B 89B +2 3:5' 53:552B 95 B' LL ' = 532B +2
.: ; ; 25.2 ; 253 4&952 =R ; 520 4&952 53 2552' 5*
3:552B +2 2 29 ; ' LL G8:+9 ; 253' 2 .= 53B2 25*
3:552 G 25' LL F' 2 ; 233B2 '.= 532B' 53:552M 95
. 53 ?92 42 +:9 5J280 ' ' ' ' 2 <29<+2
<B:832 ; 4 8:98 .28 E: 328 53 ?928 E 3 49 B: *<B:*
<=432 253:554 +28 . 53 ?9280 'RP #' ' E0
' !&254:B ; 8*@2 95 <29 89B ; '.= 820 + 253:5*
5 3 + '! B82 ++ 820 7'K! '#!7/ 'LL J' 3
49 4 29 428 B 8 58 253:55 53 +28 +:9 5J280 '
?#' ' ; ' :93 .= 53B2 52 <253 < 8 89B +2 3:5 4&95
B<=42 53:552B 25 JB 548 E2B8 + '4 8.:B48 43:9 *
420 ; '@ ' ' LL 53:552B + '3B: ; <23320 <B254B2
+2 83R+2 =4B: ?92 :9 +RB ?92 9 ; +29 4&952 4J+:*
J92 253:552B + '3B: ; <23320 : ; '@ ' A' 48:B ; 8
253:55 53+ '3B: ; <2332 4.+ 3 5320 ' -" " '
-' !' & <B' ' - ! - ! - ' .: ; ; 2 4& <B48 "P)'
!- !-'23 " !- #' :5 42EB 3 4.B B2 - !- # E2.'
952 829+2 5* 23 - !-- # E2.' 429A -' 8 J5 2B 3
; 233B2 4 58 95 3:552 9
-' # 0 A ; 6 8' & 53 2552 42* ; J5 . M0 2+2
4 3 4 ; ' RG2B8 '.= M0 3 2< B3 &'G 25 253:54
3 J+:B :82 ; 253 .= 534' @ - ' " %C' 2 .:55: 8 32*
?9' < 8 5&253:552 53 2* ; :832B H 9 .:5E2531 .: ; '
+2M '3:552' K ' "'@ '+ ! ' ' "' @#*@ #

8J ' 4 58 $ " ' ' ! J 8' $9' 3+ 1 &= +2 52
882M :B32 3 &283: ; .' <:9B 253:552B >98?9& 9
G:93 + 'G9.. 52 H+ '3B: ; <23321 3:B32 $92 +2 ! 539 5
3 8::52B^ 59 ' ; 0 '5 # !' >2 3 258 ?9& *
9+3 283B2 <B94253 '283 ; 2B 428:R0 23 < B2 ++2 ; 253
.:58. 253 29A '25 328 ; : J52B0 8: 3G 80 8: 3 G 9+30
54 2B2 ; ; 253* 8'@2 ; 2 82 ; G+: 8 G:5 23 8 J20 :9
<B4842 + 0@2 &253:552B: 8 '<+2 52 3283 20 ' '3%
' ' B:E25?' 23 28< J' '<:B39J'2 *
Q: B* 3 +' '49 + 3 5 '42 '23
' B2 49 GB9 3 QE:R' 6 G
3' 'Q 5*3:*52*B 2/0 ' ' 29:4 8253
B 5J48 +28 3:552 9A ?92 +2 GB 8829B 2 ; <+ 3 42 G 4B2
' ; 289B2 ?9& * .=4E2 95 GB 88 5
' '> '"
'Q 5*3:*5: B/0' ' NN d 583B9 ; 253 '
& 42 49?92* :5 E2B82 952 + ?929B 4 58 95 3:552 90
4 58 95 E 82' 5 253:55: B 42 E2BB20 42 2B*G+ 5.'
' 53:55: B ; J ?920 583B9 ; 253 ' & 42 49?92*
:5' 3 'E:+:534 .:9+2B :9 8& BB432B + '+ ?929B ?9'
283 424 58' LL 5 253:55: B0 & ' "G* 5 :B ; 24&25*
3:55: B' '.= 52 42 ; :53 J528 4:53@&:.: : <2 +20
8: ; ; 230 23 ?9' :B ; 253 E2.' .2428 ?92 @& ' ?9 3*
3428 95 ; <= 3=4 3B2 25 253:55: B0 '# '
" ' O O' 1<75# ' 3' A E0 <' ' 4 58 '
' +29B8 25 253:55: B0 +29B8 4E 8428 < B +2 8: ; K
; 23 23 43B: 328 < B+ 'G 82' LL ' '82 4 3?92+?92 8 80
25 <+ 8 53 530 <:9B J:8 2B' + ' &253:55.4B + BJ2'
F6 2B ; 2 4& 5 3: ; 2' B:+:5J2 ; 253 .:5 ?92 42 +'
G 82 49 3B: 8 4 ; 2 E253B .9+2 49 .2BE2 90 B2J B44 '
3:B3 < B +28 5. 258 .: ; ; 2 95 . 5 + < B +2?92+ + '
84B:8 34 428 E253B .9+28 49 .2BE2 9 3: ; G 3 4 58 +28
:8828 5 8 +28 ' LL 243:'2 E 34 .:5 3< 2 9 8: ; ; 2349
5:R 9 .: ; ; :5 ?9' :B ; 2 +2 .253B2 49 + ; ?:50
4 58 &:B2 ++2 532B52' LL 53:55: B8 428B2 580 +28. + *
.28' "6 2B ; 2 42 = B9BJ 2' 583B9 ; 253 ?9' 8:B3 '
.:549 B2 +2 . 934B2 .392+ E2B8 .2B3 528 < B3 28 ; *
+ 428' + 6 2B ; 2 42 G:3 5 ?92' 2 <44:5.9+2 .B29A
42 .2B3 58 + .=258' LL 2 ; *253:55: B0 28<4: :42
.= ; < J5:5' LL N6 2B ; 2 ; +3 B2' 2 ?9' a2B3 '
.:9+2B + '<:94B2 4 58 + '+9 ; 4B2 4&952 < 4.2' LL 8*
<4.2 42 B 34B2 ?9 'B489+32 42 &2A<+:8 :5 4&952 ; 52'
6 B3 2 49 :9B ':= 9A' LL FO 2B ; 2 42 ::5.=R*
+ :+:J 2' 32+2 <B: :542 23 .:5 ?92' F6 :B324& 5*
83B9 ; 253 4 58 +2?92* :5 @2332 ?92+?92 :+8 +28 448
9 + 29 42 +28 + 5.2B 49 .: ; 23 89B + '3 G+2
-' #+ ' ! J 8' :9@:9B8 E2.?928 ; : ' ; ' <:B32
5 :B3 G:5 253:55: B 'E 50 E' 93 :9M0 A9
' '> '"
3' > '# > 0 55J' Q 5 <* + 50"+ *5&U0 "; '
2B ; 2 42 G:3 5 ?92' $9' <:B32 428 G:9BJ2:58 25*
:5.48 4 58 + '89G83 5.2 ; 4 ; 2 42 + '<+ 532' LL# ' '
7#' 28 253:<=R+ 5280 = ; ++2 4&=4< 3 ?928
' ' & EB .0 25 424 580 23 <4 :E0 29 ++2
3' #('Q 5*3:* * /0 8 W' 2B ; 2 42 G: *
3 5 ?92 (4J4 + ? 9 82 44E2+:<<2 4 58+2 3 889 54 ; 2
4&952 <+ 532 E E 532
' "U ' # '25 424 580 23 .<934E0 <+ 532
3' !"-.?+"LJ ! 'Q 5*3:* *3:*@2*54*I&/0 ' '
2B ; 2 42 G:3 5 ?92' B:49.3 :5 42 '<+ 5328 < B K
8 328 532B528
-' (!'<- - &/ '23 / - ' <B:49.3 :5
3' Q 5*3:*<3 *\&/0 :4R 4B ; 242<=R*
8 :+:J 2' =45: ; 4528 253:<3 ?928' <=45: ; 4528 42
E 8 :5 ?9' 8&:G82BE253 4 58 & 534B 29B 42 & ; +0 +28
< 9< 'B28 43 53 2B ; 428
' ' "W0 25 424 580 23 4 2B2@! 90 E: B*
"' 'Q 5*3:B*8&/0 ' ' LL 6 83258 :5E :*
+253223 89G 32428 + J ; 2538 23 428 < B3 28 ; :428 ?9'
253:9B253 +28 B3 .9+ 3 :58 23 < B3 .9+ 4B2 ; 253 .2428
49 <24' ; 83:5 '42 ; ' EB2 82 4 55 '25 .:9B 53
952 253:B82 ?9' +2 :B? '42 8& 882: B0 8 '@ ; G2 ?5 +'
89B*2*.G ; <0 23 .2+' . + ; '+ '?92B2++2 ; 29A ?92
3:98+28 8: 58 ?92 =3' :BG28&43 3 4:5548 A ' :988'
K ' 0' ' ' 6 J' 23 ; +4B2 ; 25' :552B
952 253:B82 '?92+?9&950 +9 '25+4E2B 952 < B3 2 42
8:5 .B44 3' 2+23 2B 42 :98 0 .:582 +2B 4&c3 30
E 3 B2 9 952 253:B82 42 + '< G 34 42 8:5 B4B20
*8 #0 ' ' LL :552B952 253:B82 '95 32A320
+2 443:9B52B42 8:5 E4B 3 G+2 8258' :552B 952 25K
3:B82 '+' + B 340 & +34B2B' :5523 952 253:B82 9
G:5 4B: 30 +2 ; 4.:55 +3B2
-*# 'AE & 8 ! 29+A ?9&95 +9 .329B0 E2.' 3:932
8 ' :B.20 2 +9' 8? 9B: 3 4:552B I ' ; : 54B2 253:B82
H.B:.'25 @ ; G2@0 F ' '
C' 5 .= 83B2 988 '+28 3 9B2 9A 25 +29B 283:B4 53
+28 J25 3: B28 E2.' 428 325 ++28 '+28 <+ 28 E2*
5 5328 42 &253:B.2 ' :' ' :O
' 'c5'"0 23 ' 5:' < B30 42
3' ' 'Q 5*3:B* '0 8* [* 8 49 42 + ' B2
:5492P
3 4 'Q 5*3:B*3 *++ */&0 ; :9 ++ 280 23
5:5 25*3:B*3 *R *@&n0 8 ; 0@0 &' .3 :5 3 &253:B3 ++2BP

B 89+3 3 42 .2332 .3 :5' >2 52 <9 8 ; 2 B2.:55 33.2
4 58 &253:B3 ++ J2 42 .28 +8' LL 6 J' ! 5 B24&25*
3B2 ; +2B0 4 58 95 4 VP.:9B80 428 4 28 2?9 E:?928
+5 42 5& 3B2 < 8 .: ; <B 80 :9 428 4 28 3 2.3 28
<:9B 4:552B 9 83R+2 +2 . B 23 B2 42 + 'B2.=2B.=2
>2 B253B2 4 58 + '+ .20 B ; '42 ; 28 829+8 <B 5. <28
23 42 + ' 2B ; 23 '42 ; ' .:58. 25.20 23 @2 <B 2 3:98
.29A 42 ; 28 4E2B8 B28 ?9' 52 ; &25325 4B:53< 8 42
; & BB 32B0 5 ?92 @2 ; &2A<B ; 2 <+98 .+ B2 ; 253*
. B @2 89 8 4 . 4 ' '4 @:928 3:98 +28 B2<B:.G28 3 53
B < 3 8 4& E 83:50 42 89G3 + 3 0 4&253:B3 ++ J20 6 :'
#-'1! (!-'3' 0 <' %F
' '>
0c 'Q 5*3:B*3 *++40 ++ 20 $' ; :9 ++ 280
23 5:5 25*3:B*3 *R 0 R 2/0 " '" ' LL 6 :B3 ++'
4 58' 53:B3 ++ 'D'5 8 95 3 G+ 2B 0 LL 2B ; 2 42 G:3 K
5 ?92' R5:5R ; 2 42 E:+9G +2 0 25 < B+ 53 42 +'
3 J2' 'F' J' $9' '+2 . B 23 B2 42 3253:B3 J2'
28 <=B 828 253:B3 ++ 28' BJ9 ; 2538 . <3 29A 23 25*
3:B3 ++ 80 <:9B ; 2 82BE B 49 32B ; 2 42 . B:50 :*
O ! ' K ' '3' A 0 + E'AA50 6 < B3' .G' "' '
3B E2.8*.2 @ BJ:5 8 '253:B3 0 8' <B .29A0 8' +: *
J5 '42 + '5 39B20 ! B E 9A '89 .:582BE2B 95 ; *
B 32 4:53 5 4: 3+9 '8 E: B 4& 93 53 <+98 42 JB ?9&:5
+2 .B: B 3 5.: ; < 3 G+2 E2.' 95 < B24 + 5J J20 :'
? ' 'A / ,7'
'Q 5*3:B*3 * 2B ; 50 A' ; :9 +K
+ 280 23 5:5 25*3:B*3 *R2* ; 5/0 6' ' LL36 .3 :5 4.'
.2 ? ' 8&253:B3 ++2 93:9B 4&952 .= :82* 3 3 4&952
.= :82 253:B3 ++ 2 93:9B 4&952 93B2' LL ' B 2A325K
8 :5' 2 ?92 @2 42 ; 5420 .&283 ?9&:5 52 ; 2 :B.2
< 8 46 4 ; B2B +28 253:B3 ++2 ; 2538 428 E ++ 28 428
3<280 'C! -)D - '"" 'LLF6 J' ; *
G BB 80 :G8.9B 3 '49 83R+2' 'R' '42 &253:B3 2 ; 253
4 58 .2332 <=B 82' $92* 253:B3 ++2 ; 253 4 58 3:93 .2
4 8.:9B8' '@ ' 28 .:BB2.3 8 52 8:53 ?9242
EB 8 253:B3 ++2 ; 2538 . < G+28 42 3:9 ; 2B +28 3 3280
+ ' #
-' 'O I' 8' 83 58 42.298 42 32+8 253:B3 ++2*
; 2580 5:98 8: ; ; 28 4 83B 38 < B G2 9.:9< 42 P
4 29A 4 E2B80 ' 'NC' 28 G:R 9A :53 283 ''
38 E2.' <+98 29B8 B2E:+93 :58 :9 253:B3 ++2 ; 2580 D
5 ?92 #' '"%' 28@233:58 428 = 280 J25*
. 28 < B 253:B3 ++2 ; 2538 23 253B2*+ 80 +28B25425342'
G2++2 B2<B28253 3 :500 :' 58' 'D%$' &
' '>
'Q 5*3:B*3 *++ 0 A' ; :9 ++ 280 23
5:5 25*3:B*3 *R /0 / ' ' LL 6 5E2+:<<2B 3:93 93:9B
25 3:B3 ++ 53 53:B3 ++2M .2+ '4 58 95 + 5J2' LL ' J'
A<B ; 2B 952 .= :82 4&952 ; 5 B2 2 ; G BB 88 20
E2.' B2.=2B.=2' 53:B3 ++2B 8:5 83R+2' LLF ' ; + B2*
; 253' B.:5E25 B0 8 49 B2' 5 E:98 '8 G 25 253:BK
3 '?92 E:98 E2M .:58253I' LL :<9+ B2 ; 253' c5*
59R2B' =* 882M* ; : 0 8 ; &253:B3 ++2M LL 6 &253:B*
3 2B0 W'# ; ' & 33 .=2B '952 .= :82 25 &253:9B 53
<+98 29B8 : 8' 2 82B<253 8&253:B3 ++' 93:9B 42 8'
@ ; G2' '+ 'E J52 23 +28 93B28 <+ 5328 ?9 '8:53 *
328 <:9B 8& 33 .=2B 9A JB 548 BGB280 25 .=: 8 8*
8253 8'G 25 +28 <23 38 .B29A 23 8&253:B3 ++253 8' <B:*
<B2 ; 253 9A 254B: 38?9 '8:53. < G+2842 +28 <<9R2B0
' '1!- 'E0 'LL ; + B2 ; 253' &25E2+:<<2B 0
4 58 95 ; 532 90 4 58 952 .:9E2B39B2' LL N' J'
&253:B3 ++2B 4 58 428 <=B 828 ?9 E:?928' ; ' G8:+9K
; 253' :98 E:98 253:B3 ++2M
-' 0 A 96 8' & + 28.= <20 .2 283 ; 2BE2 ++20 '
B: M HB238I 2532B +9 '8&253:B32 ++20 B 8 283 23 < B .: +
23 < B < 2M '@ - '% F$' &952 428 B28528 49 .2E + '
&28.9 2B 253:B32 ++ '25328 2+2< '49 .=2E + 2B0 '
S E0 " ' 2 3:9 ++28 H3: +28I 8:53 253:B 2 + 28 +29B
328328 H428 4:9 58I0 ?9' +29B E:53 < B 428:98 +2
; 253:50 4:53 +2428 H+ 428I J258 23 Y 429828 8:53
'B2J B42B0 '$M2'>G B 8 2' <23 3 53B E: 3
<2B492 3:932 .:5325 5.20 :B8 42 253:B32 ++2B +2 <25K
4 53 42 8 '.2 5.39B2 253B2 828 4: 380 & '" '@ -)'
'.=' ' S 6 '+ + 882 28<: B 42 < B4:5 '.29A
?9' 9B:53 283 '253:B3 2M 9A +238 49 4 G+20 '
- ' "'"%' 28 .:5.9< 8.25.28 8:53 8' . .= 28 23
253:B3 + 280 ?92 2 +2 ; 253 2 +28 3B: ; <253 + 'E292
42 &@ : ; ; 20 5' ' N"' +M+29B253:B3 ++2B253+29B8
B:GG28 93:9B 49 .:+0 23 +28 253B 52B253 < B :B.20
!S 0 0 7 ('C
-' (!'c5'"0 23
@* ' Q 5*3:*83 B*9 +/0 ' ' 2B ; 2
4& 5 3: ; 2' .2 49 832B59 ; '428 3:B3928
' "U ' B # '25 424 580 23 #-7
', j' # S'Q 5*3:*3:*B \8&/08' ; ' 2B ; 2 4&25K
3: ; :+:J 2' 52 428 < .28 49 3=:B A' 428 582.328 D
' "U ' & #9' 25 424 580 23 &!# B
F @, @ Q 5*3:9B/0 ' ; '@L' 6 &283 J9 B2 98 3
?9& 9' '+9B 2' 29A . B.:5E: 8 58' 28 253:9B8 428
9 +2B 28' 52 E ++ 2 25E B:55 2 42 G: 8 ?9' :B*
; ; 253 +28 253:9B8 42 .2332 G2++2 8 ++2 G 3 2 428
; 58 42 + ' 5 39B20 6 ' # 3.=0 ; 0' %M0

' J' 2 ?9 ' 253:9B2 .2?9 ' .:5.:9B3 ' ++:58@8'
E89 '8 E: B :58 +28 253:9B6 42 .2 <B:.444 5: B
.*- ' > '" '/' ' ' 93 ?9& +8 253 .2B3 58
253:9B8 23 428 . +348<2 '.: ; ; 9528 <:9B & ; <B28*
8 :3' 42 .28 29 +28 '> ;' * ' 3' MAM
<' "4 58 ' ' B.:5+9.93 :5' +2 H ! ; 2 4& *
JB2 4<9 8 '3:58 +28 253:9B8 23 +28 25E B:58 E2.'
3 52 < 3 25.2 42 ; ' < B3 52A<B ; G+2 : Q' %DJ
7 ' ' ' B 2A3258 :5 .29A ?9 'B E253 4 58 + ' ;
+ B 3R 42 ?92+?9&95 828 E: 8 58 82882BE 329B8 23.'
! :582 J529B <:9B 4& 93B28 32 ; <8 +29B 3 3 8*
89B ' H 9 ' ! 3 B48 < B828 253:9B8 ' "7 8:'
E2.' 42 32+8 253:9B8 + ++ 3 3:932 & ; ' 49 B:'
<:9B 8:9325 B = ; ++ B3 5' C 38:' :98 8: ; ; 28
' :8< 248 ; 4 ; 2 E2.'3:932 + ' .:+:5 2 233:98+28
253:9B8 '= 'A ' '# , ' ' :.3' "CCN'
! ; ' 9 32 ; <8 42 ; ' <+98 JB 542 E:9B 9<B 8 42
& ! ; 2 + ' ; ' +2 E 8 3:9@:9B8 8253 ' ?9& + 5&R
E + ?92 ; 25 8 5: B2 33 .=2 ; 253 <:9B ! ' +2 ; *
B .G + 23 <:9B 2++2 ?9 ' < 33 ; 2 B254B2 +29B8 253:9B8
89<<:B3 G+28 '6' ' ' ' J 23 '
3 ?92 5:98 5:98 <+ 8:58 < B 583 5.3 25 5:98*
; ; 28 4 58 5:8 <:88288 :58 5:8 253:9B8 5:3B2
28<B 3 # ! ' " ' , 6' ' '
B 8:+93 :5 A 2 + +9' ; <:B3 3 ?9&2++2 52 ; .:5*
3253_3 < 8 828 253:9B8 + <258 3 ?9&25 29A + '<2BK
89 8 :5 9B 3 <+98 42 M +2 ?92 :G 88 5.2
' ' . " ' E 'LL E: B G 25 <B254B2 +28 253:9B8'
J J52B .29A ?9 ' 253:9B253 + ' <2B8:5 2 4:53 :5' '
G28: 5' 'F6 ' &253:5B * ' , / ' :R' 6
- ' + ' S 6 F' A56 8' H +8 :B253 <:B<B 8 253:B 23
25E B:5 .! -(5' < ' "C' 52 = B3 +9' :53 325*
3:B +2 .:+ 2B ; 2B03G' <' " C' LL A ; 6 8' 8 :9+?928
.: ; ; 25. ' ' < B+2B 42 5:83B2 2 J529B < B B 5.2
23 < B +28 93B28 < 8 4&253:9B E5A #' ' 53:9B
+ ' 3 >2= 9 ?92 &O B:82 283 +:B 2 D # ' /' 4 3
.: ; 32 42 = ; < J52 4:55 ' '+ ' B:R52 42 R<B2
253:9B 429A ; ++2 + EB 28 42 3 ; '2 +: ; E' '
' O I (' &253:9B +9' H +I' 4: 3 3:98 ; 25329B8 B2G:9*
32B ' #' # ' - ' 9<5522 'LLAE 68'
: ; ; 2 E2 28 .= 88253 +28 B28+:58 4&253:3 B +25B8
B: .=28 ' H #/' ": ' 28 < J2:58 ?9' :53+2
.:+ 4:B &253:9B 428 R29A 23 +28 < 248 B:9J28
' ' 7
- ' c (! ' c5' " 23 3:9B 8' ; P G:9BJ9 J' '
<B:E25?' 253: ; ' 3 + '35 : ; :' 58 & 5*
. 2552 + 5J92 , ' 3 3 988' <B <:83 :5
'Q 5*3 9*B *&/0 ; 'LL ~ 24 342@3:93
.2 ?9 ' 253:9B2 <B:3 J2 95' :G@23' #233B2 95 253:9K
B J2 '9523: ; G2 '95 BGB2 '3 5 < B32BB2 'LL 6 B*
52 ; 2538 ?9 '253:9B253 95 G@:9' 53:9B J2 42 <2B+28'
6 J' 29A ?9 'E E253 4 58 + ' ; + B 3 ' 42 ?92+*
?9&95' 5 52 <293 B ?92532B .2332<2B8:552 ' . 982
42 8:5 253:9B J2
- ' (! ' <-7 # #
b' > 'Q 5*3:9*B 5 B 5* / ! ?; '
$9 '82B3 '253:9B2B 'LL 2B ; 2 42 G:3 5 ?92' 29 +28
253:9B 5328 .2428 ?9' :B ; 293 25 82 B 95 88 53 9K
329B 42 + '3 J2 952 8:B32 4&253:55: B
c ' Q 5*3:9*B B 2/ <:B3' A)'
6 $9' ' 93:9B 428: ' >2 89 8 95 ; + 42 253:9B '
42 7"/(<+98 ; + 428 ?92 ; : 9 ' + ' "?#/ -)'
' M'@ 5E' "CC ' ' ! . 4: 52 3 3 <B28?92 25*
3:9B 2 42 ; :53 J528 5 ..288 G+28 ' .! '
.='N 6 J' '<B: ; 2882 89 3 23 @2' + ' .B: 8 <+98
8 B2 $92 +28 932+8 428 4 29A 253:9B 8 49 < B@9B2
' >:B3 " ' 1 ' ' LL 5 =: ; ; 2 G 25 5 +
253:9B 95 G: ; ; 2 ?9' ' 4 58 8' ; + B 3 ' 428
7"/(=:55 328 ; +G:55 328
'Q 5*3:9*B / k' ' 6 ! 233B2 93:9B'
b 53:9B2B 952 E 2 42 ; 9B ++28' 53:9B2B 95.= ; <
,42 G +28 ' d J' :8B: 8 :53 ; 8 +23 3B2 42 .GB 3 258
'+ '3 32 923:98 +28 3 3+28 ?9 '253:9B253 23 255:G+ 8*
8253 +29B8 .:9B:5528 'O ' #' H# -" 7#"
)1 ' 5E 5 3:53* +8 + 'J92BB2 + ' <+98 .B92+2 '+ '
) 8. 25.2 25 E 5 4 58 + 'E9G 4& 889B2B +29B2 ; < B2
253:9B253* +8 +28 3 +28 =9 ; +528 4 ' 25 5.2 428
G 542+23328 8 .B 28 42 &:< 5 :5 5& . <
;7/' .=' '4 58 ' 8<75# ' 9 42
8: 58 < 32B52+8 @&253:9B 'E:3B2 25 .2 ' ,8)'
' ' ' ' (LL 6 + 82 4 3 988' 428 <2B8:5528 ?9'
82 ; 233253 93:9B 4&952 93B2' 28 J254 B ; 28
253:9B253 +28 B2G2++28' $9 54 @&253B ' 4 58 +2
8 +:5 3:93 +2 ; :542 ; &253:9B '<:9B ; 2 42 ; 5*
428 428 5:9E2++28 42 ! ' 4& ; 2B ' . '
?" ' ' ,& ! "'3' 5 +23 ' C <' "7N' LL + 82 4 3 988'
428 <2B8:5528 ?92 :5 ; 23 93:9B 42? 2+?9&95' '
<:+ .2 & ' 253:9B '4&28< :58' LL 6 :B ; 2B + ' 8:.+ 3
+ ' .: ; < J5 2 G G 392+2 42 ?92+?9&95' + 3 +2
; +=29B 42 .29A ?9' &253:9B253' 2 +2 89B +9 89B
8:5 J:9E2 ; 25B 89B 3:93 .2 ?9 ' &253:9B2 Q.' '
-(' ' < ' YYY' "6 &253:9B2B 5 ' # ' 95 B
9329B 42 8: 3 GGB 4 58 8' ; + B 3 ' &253:9*

B2B 42 8 E 538 4& B3 8328' LL ! 233B2 93:9B 42 8:
25 < B+ 53 42 .=:828' 253:9B2B 4&:G@238 4& B3 42
+ EB28 42 <B A' LL J' &253:9B2B 42 <B . 93 :58 4:'
; R83 B2 82 .:549 B2 E2.' 42 JB 5428 <B . 93 :58
E2.' G2 9.:9< 42 ; R83 B2
- ' (' E ' 28 25E+B:58 8& *
3254253 <+98 +: 5 ?92 +28 253:9B8 4:52 253B2 .2
?9 '25E B:552 23 .2 ?9 ' 283 25E B:55 & +: J52 ; 253
K283 <+98 JB 54 ?9&253B2 .2 ?9 ' 253:9B2 23 .2 ?9' 283
253:9B ' 52 E +2 25E B:55 2 42 B .=28 . ; < J528
8 J5 2 ?9&2+2 ; ; 2 9 +: 5 93:9B 4&2 2 42
B .=28 . ; < J528' 52 E +2 253:9B 2 42 .:32 9A
8 J5 2 ?92 +28 .:32 9A +9' :53 952 8:B32 4&25.2 532
- 'N (! ' < - ! 7#3' G:9BJ9 J5' - ! ' < - ! 7# #'
283 95 ; :3 B .2 ; ; 253 3 4&253:9B ; :3 4 58 +2*
?92+ &5 3R ; :+:J ?92 428 4 B E 8 42 3:9B ; ; ; 2
3:9B52B < B 2A2 ; <+2 ' 4 8< B9' ' :B ; 2 B J9+ B2
3 3 253:9 ; 2B ?9' '49B '@98?92 4 58 +2 AEB' 8 . 2'
28 << B2 +8 2 B:R G+28 42 ?9 :R 5:98 253:9 ; :58
+ ' ; :B3 ' 'S2
' 5*3:9B*59*B&/ ' ' B3 2 49
.:B8 J2 : + + ; 5.=2 8& 4 <32 23 ?9' '+ ' :B ; 2 49
GB 8' ' 2 = 93 42 + ' ; 5.=2 +9 * ; ; 2 <B254 988'
.2 5: ; ' &253:9B59B2 42 + ' ; 5.=2' 2 .:B8 J2 '
+28 253:9B59B28 3B:< +B: 328 ' LL J '23 ; + B2 ; 253'
2+ ' +2 J 52 4 58 +28 253:9B59B28 .2+ ' +2 ; 23 ; +
' & 82 ' LL &283 + ' &253:9B59B28 +2 <: 53 4 . +2
- ' (! ' 5. 25 B 5?' - ! 7#- #' 42 25 " 23
! 7#- #
3' * * 'Q 5*3:9*\ / ' ' 8< .2 42 < *
B <+9 2 ?9 ' 283 <+98 <23 3 ?9? + ' :B ; 2 :B4 5 B2 428
< B <+9 28 23 3 ; <29 <+98 JB 54 ?9&952 : ; GB2+2 23
?9' 82B3 ' GB 32B 42+ <+9 2 :9 49 8:+2 + ' LL ?7 7#'
28 25*3:93*. 8
3 I + 'Q 5*3:*M * *B+ ' ' 2B ; 242
M:+:J 2' 5 ; + ?9 'E 3 4 58 +2 .:B<8 4& 93B28 5 *
; 9A
' ' & E3:. 25 424 58 23 3:4< :E 4 ; 6
593 '42 Q2 2E 5 ; +
3' ! " - ^ - - J ' 5*3:*M:*:*@2*5 *M&/ ' '
2B ; 2 42 M::+:J 2' B:49.3 :5 428 53:M: B28
- 'N (! 53:6:: 'QE:R' ; G' 23 / -
j' I ' 'Q 5*3:*M:*:*@2*5 *3 *\&/0
" ; ' $9' ' B <<:B3 ' &253:3: :J25 82
3' I 'Q 5*3:*M:*:*+*@ 2/ ' ' # 8*
3:B2 428 5 ; 9A ? 'E 253 4 G8 +2 .:B<8 4& 93B28
: ; 9A
' ' < - ! / ! ! ' QE:R' ; & ' 23 UN*
#! '3B 3
3' #& 'Q &/ Q 5*3B *G *3B / W B4[+' & *
G 33B2 &95 & 93B2
- # A 56 8' ; G249 'H3:98 429AI' 8&253 G *
3253 3:93 8 5J+ 53 25 &2BG 2B D # ' SAAE
- ' (! ' < - # ' 23 #
3' S & 'Q &/ Q 5*3B *G:B*4 / ' # '
& G:B42B ; 9392+2 ; 253
- '# 'S 6 8' 2 B:R 23 +2 B R 4& 5J+232BB2 ; :5*
3 8 .= .95 89B 95 .=2E + 4& 8< J52 8&253B2* G:B42*
B253 ' ' M
'3 ' < - # ' 23 ! #" #
3' & 'Q &/ Q 5*3B *\ :*+ / 5' # '
& ..:+2B B . <B:?92 ; 2 3
- ' # ' J 8' < 8 &253B& .:+: 253 23 G 8: 253
' :3: "C" ' S 6 8' ' 8&253B& ..:+2B253 23 B253
JB 53 .=2B2 ' 5 " "C
' , ' < - # ' 23 (! #
& 'Q &/ Q 5*3B *\:B*4 / :' #
& .. B42B 82 ; 233B2 42 G:552 532++ J25.2 2582 ; K
G+2' ' B 2A3258 :5' 3 <:9B #2B 428 ; :38 B' ; +
8&253B& ..:B4 538 8:5 ' < ' -
- ' # AE 6 8' 2 5&283 829+2 ; 253 42 . ; 3 '
93B2 : '32 28 4 2B25.28 82 E: 253 58 4&=:B M:5
' =:B M:5 52 8&253B& ..:B4 58 < 8 ; 28 ; 2 25 3:9328
.G:828 429A 32BB: B8 .:53 J98 ' ' ' 3%
- ' (! ' 53B2 23 (! #" #
3' & # 'Q &/ Q 5*3B *\B:*.= / W' # '
& ..B: .=2B ; 9392+2 ; 253
- ' # 'A 6 8' 2 '429A . < 3 528 + 8.= 53 +28
GB 428 42 +29B8 .=2E 9A E2.' +2 8 429A ; 58 8&25*
3B& :.B:.=2B253 &95' ' & 93B2 3 8.= 58 ' 8& BB .=2B
+28 55238 428 328328 ' <7 - ' A ' H 28
3: ; 28 #29B3 8 2582 ; G+2 53 : +<:8 ' +2 ; :542
&253B& ..B:.= 5 ' 42 + 258 3:98 4 E2B8 ' $%
' ' < - # ' 23 (# ! (& #
& 'Q &/ Q 5*3B *\9*I / 5 '# ' & *
.982B &95 & 93B2' =:82 5.B:R G+2 ' +8 ; 29B253
<B28? 2 3:98 E2.' .:9B J2 <B 8 8& 3B2 253B ..98 8
+ .=2 ; 253 ' J52 " ' 1 7" ' ' ' #! - ' ; '
)7
- ' ; 8 ' A56 8' ' .: ; ' 328 ; :5J253 8 5I' 9+28
\ ' 4 83 \2 +28 <25828 H<258 28 8:' 253B :982B953 9
42 2542B953 ! ' < ' "FN
- ' (! ' < - # ' 23 ((7 #

& 'Q 5*3B *\ / ' ' LL ' 532BE +2
253B2 429A .328 4&952 < .2 42 3= 3B2' 28 25K
3B& .328 .:9B38' B 82532B 428 B B +.= 882 ; 2538 9A
4 ; 28 4 58 +28 253B& .3289 '+ '4 C '1 #! - '
' 6 B3 2 4&95 8<2.3 .+2 ?9 ' 8&2A .932 253B2
429A .328 532B ; 42' LL 23 32 8R ; <G:5 2 ?9' 283
?92+?92 : 8 <+ . 2 < B +2 .: ; <:8 329B 253B2 429A
.328 4&95' :< B ' LL F" B 2A3258 :5 ' + R' ' 428 25K
3B& .328 ' 5:8 .:5E2B8 3 :58 8 E' A :98 E:58
95 583 53 .B P + B .2 3= :28 ' 9 8 &25*
3B .32 283 E259P .&283 G 25 23 ; 5325 53 ' :98
E:58 3:93 B R ' <:9B .B B2 93B2 .=:82 E' / '
1# ' F
- '$- ?' < - # ' 23 ' T
3' & ! 'Q &/ Q 5*3B *4 ; *B / W' # '
& 4 ; B2B ; 9392+2 ; 253
'$- ?' < - # ' "% " # #
3' & ! 'Q &/ Q 5*3B *4 ; :*5 *83 0
'# ' & 4 ; :52832B B . <B:?92 ; 253
' 'O I (' < ("' 'O&&-"'"/%"/' ;O%O-&&"' O!' #"@
.0/%#"&! 8' (!"/%'"@O# + * / "(%O/('&"(' ! / ('&"('O!%'"(#"
/!0 ; 0/#* / / "" 4O(&" ! " 204-%0-/ "' ' 1 ' M
'$- ?' < - # ' "% " ! - #
& 'Q &/ Q 5*3B * B:5*3 /W' #
& +B:532B &95 & 93B2
' 'O I (' &253B& B:532B ' D;D
'$- ?' < - # ' "% #! - #
3' 'Q 5*3B *@&@' ' ' 2B ; 2 42 4B: 3 :*
4 + ' B: 3 ?92 &:5 < R 3 5 82 J529B 25 <B25 53
<:88288 :5 4&95' 2 ' :9 4&95 G + ' .258
'$- ?' < - # #
& 'Q &/ Q 5*3B *4 U E '# ' & 42B ; '
392+2 ; 253' + 82 93 253B& 42B .&283 + ' + :' 42 5 K
39B2 ' ' E ; A
- ' # A ; 6'N' 3 8&253B2@9B253 23 53 $9&'
+29B <: : B &253B 42B:53 ' . ! ' *N "
- '$- ?' < - # ' 23 " #
3' 'Q^/' Q 5*3B *J9 *M 7 ' <B:*
5:5. ' .: ; ; 2 4 58 &7 9 '5 '# ' & J '2B' B . *
<B:?92 ; 253
- ' # 'S 6 8' 52 282342 : +: .: ; ; 2 429A .:9*
32 9A ?5' 8&253B J9 82533 .2332 J ++ B42 @2952882
< B 95 2A2B. .2 +32 ; 3 <<B254 ' < ' M)B
@'$- ?' /%'O' "% " / 7 #
'Q 5*3B * &hh' ; :9 ++ 28 23 5:5' 5*
3B *R2/ ' ' LL 6 : ; 'J 5 B ?92 4:55 ' 9A < B3 28
25 2B ; 28 4 58 +2 3B:5:' 42 &=: ; ; 2 23 428 5 ; 9A
23 < B3 .9+ B2 ; 253 4 58 +2 E253B2' +8 E 4 B253 +28
253B +28 23 2 ; G 9 ; B253 +2 .:B<8 9 ' U ' 1'
S ' +.:589+32' +28 253B +28 428 E .3 ; 28 #
, ' O' 28 253B +28 .: ; ; 25. B253 ' 8:B3 B E2.'
5' B9 882 9 428 5J '8:5 32 53 82 + 3B 3 .: ; ; 2 952
+29B ?92 + ' ; 5 4&952 5R ; <=2 ' .92 + 2 4 58 +28
<B 8 ' 'OO' 2332 8. 25.2 B E:+2 ?9 ' .:58 832 '
.:55 +3B2+ 'E:+:53 '428 4 29A: 9< B +2E2+ 428 : 82 9
9 < B +29B .= 93 :9 < B & 58<2.3 :5 428 253B +28
4&952 E .3 ; 2 '1 - " ' - ' & ' 8. ! - 9'
.'428 3G+ 328 ?9 '5& 3 253 < 8 25.:B2 253B 8 25+ .2
.=2B.= 253 4 58 +28 253B +28 428 E .3 ; 28 + '428*
3 5 2 ?9' +28 33254 3 # ' ? - ' .=' F
@ 253 B .B 2B 828 253B +28 E: B ; ' 5' 9329B
?9' <B288 '4&95 G28: 5' ; <:B395 2 8: B 253254.B 2B
828 253B +28 '@295 ' :+32 <2 '4&# + .:5 +28 499.28
<B: ; 25 428 '?#' ' E' * J' .= B2B 828
253B +28 25 < B+ 53 4&95 <29<+2 3B2 25 <B: 2
9A 4 8.:B428 . E+28 ' 882M 42 9528328 G 3 ++28
3 42 . B5 J28 5=9 ; 58 53 3 25 5:8 <B:<B28
253B +28 :9J B 5:8 4 +:R +28 ; 58 ' ; :
'$ &2 +2* ; ; 2 H : ; 2 89B 8: 'B25E2B82 828 ; 9B +K
+28 3 42 828 <B:<B28 ; 58 4 .= B2 828 253B +28
' D! #' ' M' : ; 2 < B 828 ; 58 4 .= B 3
828 253B +28 5' 1 - - ' ' LL J' 293 B 828
253B +28 82 4 .G B2B <B:9E2B 952 E E2 4:9+29B'
&283 +9 ' H ; 54RB 42 ?9 E:R 53 95 < R8 5 8:9*
+2E2B 8 'G .=2 E2.' 2 :B3 8253 3 828 253B +28 '
4 :=B2B 23 ?9 '52 <:9E 3 4:B ; B8 < B ; '+28 29 +K
+28 42 B:82 4:53 8:5 + 3 3 3@:5.= 952 829+2 E2*
5 3 '82 <+ 2B < B G 8 B4 ' ? - & ' .='
' 2 5 42 + ' ; B2' 2 B9 3 42 E:8 253B +28 LL ' '
82 4 3 428 + 29A 28 < <8 <B: :548 42 + ' 32BB2' 28
253B +28 4&95 E:+. 5' ' ' :9 + ' +28 253B +28 43
+ '32BB2 '1 ! - - 'E5' N J' F ?9& + R' '42
<+98 53 ; 2 4 58 952 .: ; <:8 3 :5 + 33 B B2' 233'
4 83 5.3 :5 :B3 428 253B ; +28 ; ; 28 49 89@23' LL"6 3
?9 '8:B3 42 5:98 5:3B2 ; +2 5:8 25 538' &283 95
=: ; ; 2 B ; ' .253B2 828 <B:<B28 253B +28
" ' 4 58 ' ! 4 ; 2 < BJ52M* 28
< BJ52M E:8 253B +28 'C " ' - / ' ' LL I & 5*
3 B 29B0+2 :54 42 & ; 2' 29A ?9' .B E253 < B =9*
; 29B ?92 +2 .:29B 3 < B+2B ' ?9 ' + 58< B2 +28
32B ; 28 23 +28 J9B28 23 ?9 '3 B253 <:9B 58 '4 B2
42 +29B8 253B +28 3:93 82 ?9& +8 2A<B ; 253 89B +2 < K
< 2B ' ' "$' ' ' D' 258 G + 3 3254B2 2.3 :5

88:58'5:98 +2B 42 G:552 :' 9A .=:828 ?9'5:98 B255253 < B +28 253B +328 23 52 .=2B.=:58 <: 53 42 B 8:552 ; 253 <:9B 5:98 2 ; < .=2B 4 E: B 49 <+ 8 B ' +, '8.'C' 'E293+9'4:552B <:9B 3:98428 253B +28 42 ; 2B2 :88 5 . / '+52' <258'<+98 ?9 .2 2952 <B 5.2 H 2 4 9<= 5 +842' :98 S I '42 <29B 42 ; :+ B < B +'3254B2882 '2 ; <B953' 93:B 3'49 B: 42 <29B 42 +2 B2G932B < B 9834B 34 428 <B4.2<328 <B 3 +28 253B +28 49 4B2 , ' ! , ' ' , ' 3 E:98 ?9'+9' +2E2M H 9 ; +=29B29A 428 253B +28 42 < B2 ?'& '-'% >2 8258 ?92 ; +JB4 3:5 : 2582 !28 253B +28 <:9B 3:' 82 3B:9G+253 < B E 5.2 ' 0 ' E 7' ' 93 89B<B 8 42 3B:9E2B 828 253B +28 33254B 28 c ' 9 'A' G8:+9 ; 253'>2 <B44 8 3 ?9 .:5?92 '428 253B +28 ?9 B2B82B '428 + B ; 28 E' *!((' c ; ' ' ' <:+3 ?92 ?9' '428 R29A 23 <: 53 4 253B +28 ' '" 'A E M' 5* 5+G + .B92+ 8 58 253B +28 93 25 ; J5 5 ; 3R :B3 5 4B 29B '8:5 B E + '$ '5 K ' 23 .329B '428 253B +28 :92 E2.' .= +29B 23 952 JB 542 E4B 3R 4 58 +28 8 39 3 :58 < 3=R3 ?928' 'C8 2B ; 2 42 44E:3 :5' 28 253B +28 42 + ' ; 84B * .:B42 4 E 52' 29 ?9' 2B ; 2 <:9B 3:9 :9B8 828 25K 3B +28 \+' ; 84B .:B42 ' 23' '9 * ' $92 8:53 42E25928 +28 253B +28 42 E:8 ; 8"B .:B428 C ' 'A ' B 2A3258 :5' 2EN32M*E:98 25E2B8 E:8 B'B28 4 253B +28 42 ; 84B .:B42 ' $ ' 5 33 .=2 ; 253 5E :+ G+2 <:9B +2 B: 428 253B +28 42 ; 84B .:B42 <:9B +28 ; +=29B29A 952 ; :9 G+2 <2B84E4B 5.2 4 58 3:98 828 42E: B8 ' A 9A ' 58 .28 ; +=29B8 +28 253B +28 42 + ' .= B 3R 8 N ; 9B253 ('>" 'AAA 33 -' ' o ' 28 429S ; <3 '8+* J5 +253 2A .32 ; 253+' ; N ; 2 .=:82 ; 8 253B +28 28349' 83R+2 5:G+2 23 G:R 9 49 83R+2 +2 <+98 3B+ 4 + 8 +5 283< 8<9B2 ; 253 4 4 .3 ?92' 2<+98 253B +28 82 <B254 3BR8*G 25 4 58 +2 8258 J9B4 23 G:R 9 52 8 R <B254 <B28?92 ; 8 ?9 25 B 4 .9+2 ' 2 +:J2* ; 253 5 283 ?9 95 G:R 9 -'# 'S 68' '+2 <B 83 JB 53 4:+:B 25 828 25K 3B +28 T * 1'5 F' A 68' E283' ; +2+ :5 H ; R4 .3 :51 58' .: ; 2 E2832 ; 253 23 253B' 2+2 28 53B +28 42 +9 0 , ' ['V N' B 8' <2 49B2 ?9' E:BB: 3 HE:94B 31 28 253B +28 E2: B <:BB: 3 '< 'V "' 2 8 52 98 BB M 58 :53 .:BB2 JB 53 B9 82+' :93 +' <BR 8:53 .:E2B3 4 253B +2 23 42 G: 2+ '4 53'5 NN -'N (!' B:E25 ' 28< J5' ' 49 G 8*+ 3' '4 58 + '+:' 8 + ?92 49 + 3 5 '3$ 'R34 89G83 3942 = 5'4 58 +2 B 5^ 8 23 4 58 +2 <B:E25. + <293*R3B2 < B 5 +925.2 42 + ' 5 +2 '?9'283 .: ; ; 952 25 B 5? 8' :?92 :B3 . 32 952 :B ; 2 B 5. 82 ' ?9'R3 3 + ' EB 2 4RB E 3 :5

! ' ' Q / Q 5*3B=* ; R/ 5'# ' ; 2B 95 93B2' 3 8' + ' B2882 ; G+ 5.2 283 < B ?9 :5 253B ; 2 > '+ 29 42 E:98 ; 2B .: ; ; 2 95 93B2 ; : * ; 2 ' & ' 5 "' >2 5 ' ?92 3B:< 42 3254B2882+' B254B2 42 <23 38 82BE .28 79 54 2 E: 8 428 J258 ?9' 8 253B ; 253 25 3:93 G 25 23 25 3:93 =:5529B ' $ & / ' E V' :9E252M*E:98 ?92 3:98 +28 =: ; ; 28 4: E253 8 253B ; 2B / 8 , 9 'AA' 25 52 82B 3 <+98 58 < 42 8' :5 52 8 3 ?92 8 253B ; 2B % F ' ! ' 'A ' ' -'# A 68' !:93 4:9.2 ; 253 H +8 8 253B K ; 253 +: 9 ; 253 8 58 2 53 82 % ' < '<' V7' AE6 8' E:R8 258 23 :9B* J9 J5:58 % 3:98 32 ; <8 82 253B2 R ; : 253 F' 'S 68' E29+3 ?92 5:98 5:98 253B R ; :58 95J 93B2 .: ; ; 2 B2B28 ' 4 1 'V 0 -'c (!'> '23 '<B:E25^ 3' ' Q 5*3B 5/ 8' ; ' 0 = +29B J 23R 5 39B2+2 23 .: ; ; 95 . 3 E2' 2332 <2B8:552 5 ' < 8 4 253B 5' 23 =: ; ; 2 ' 42 253B 5' ' B* 429B 9 3B E +' 394 2B E2.' 253B 5'>2 5 '<: 53 4 253B 5 2 5 ' 9.95 253B 5' 9 :9B4 =9 ' ' 6 ! :9E2 ; 253 B < 42 23 5 B54 4 952 < 2.2 4 952 .: ; <:8 3 :5 4 58 25.= 352 ; 253 428 8. 528 23 428 8 39 3 :58' 2 E 942E +2 .23 :< B' '42 253B 5' 532M 42 828 R.B 38 +2 +RB 8 ; 2 23 253B 5 ' = ' " '# , -' (!'> 'V 23 + ' Q 5*3BF*5 *G+ / ' "; ' :+:* J 8 ; 2' $92 :5 <253 253B 352B ?9' 82 + 882 25* 3B +52B ! ", #] !"' 'Q 5*3BN*5 5 5 5* / :4 ' $9'253B 58 +2 .:29B 28<B 3' 52 R :?925:2 25* 3B +5 532' 5 .= B ; 2 253B +5 53 %' ! ", #" ! ' ' Q 5*3B *5R 5 2/ " '" ' 4 253B 352B+' $9 95 ; : E2 ; 253E : 2532 ; <:B32' 2' 2 9 B'253B 35 '< B+2 .:9B 53' 9B 95 B9 882 9 B < 42' 2B8+' B 5.2 253B +5 ' 8 88 24 :8 G9*

; 42 3 +2 B:53 5.+ 5 ' > ' 6 J' 53B 35 '< B 828 << 8 2 ' 89 E 2 98?9 25 .2332 E +2 ? ' - ' ' 2 8: 58 39 ; 9 3929A 95 <B 5.2 25E B:55 ' 2B8 42 5:9E2 9A :G 238 283 8 58 .2882 253B 35 ' > ' =: ; ; 2 .* .:939 ; ' 3 .B: B2 4 E 5 3:93 .2 ?9' 3 3 <9 8K 8 53 .: ; ; 2 82 8253 3 253B +5' 9 E .2 < B 952 :B.2 5E 5. G+2 .B93 8 ; 253 ?92 .2332 :B.2 3 3 =:B8 42 +9' 23 8 25 3 G 253 3 95 4 29 ' 9' ' 5 B:'< B +28 ; .538 4 58 +2 .B ; 2 253B +5 ' ' ' 52 E 2 39 ; 9+* 392982 J 3 2 253B +5 2 <:9B 58' 4 B2 < B +2 ; :9E2 ; 253 428 93B28 =: ; ; 28 %%' ' :53 * 592+2 ; 253 88 + 8 < B 428' 4 28 8258 =+28 23 428 4 28 532+2.392+28 5:98 8: ; ; 28 253B 35 8 428 9528 9A 93B28 '& ' '" ' 3 3:9K :9B8 253B +5 .B:R 3 3:9 :9B8 .=: 8 B 9 ' ' 3' ' !", #" ' ' Q 5*3B *5 5 2/ < B3 4 253B +52B =2E 253B +5 .=2E <B < B' <:9B + ' .:9B82 V' + ! ' Q 5*3B *52* ; 5/ ' ' ' ' .3 :5 4 253B +52B 3 3 42 .2 ?9'283 253B +5' ' ' J' 2332 3B J 4 2 ' <B:49 3 G2 9 .:9< 4 2+ 23 23 253B 352 ; 253 '3' J 5 B + 253B +52 ; 253 42 2A2 ; <+2' 253B +52 ; 253 428 < 88 :58' +2 E 3 ; +'3:932 8 'E 2 &'" . +.9 6 253B +52 ; 253 ' 1!# - - 'A5 3' ' '<- # -#' 3' ' + ! ' Q 5*3B *52* ; 5/ ' ' 2B ; 2 42 .:9B82 23 42 JR ; 5 83 ?92' .3 :5 42 <B * < B2B 95 .=2E <:9B+' .:9B82 95 =: ; ; 2 <:9B .2+ 58 2A2B. .28 < B 95 B J ; 2 .:5E25 G+2' <B 3 ?92 <B 5. < +2 42 253B 352 ; 253 .:58 832 4 58 428 .:9B828 89 E 28 42 8: 58 ?9' :93 <:9B G93 42 4 G BB 882B +2 .=2E 42 8:5 89<2B +9 23 42 +9' <* <B254B2 ' .:9B B ' ?'6 ' 3 + ' Q 5*3B *5 / ' ' / 6 B 52B E2.' 8: <B 8 8: ' 2 3:BB253 253B +5 3 428 BGB28' :98 + 882B2M*E:98 253B 352B ' 932 8 58 E:98 <+ 54B2^ ' ! 1 '1 '.='N' $92 3:93 .= BJ '42 32B8 ' ; 28 R29A :5 253B +52 9'U ' E F' +2 253B +52 4 58 + ' .= ; GB2 E: 8 52 !06 # ' 9 ' , ' '3' <' V7C 4 58 ' B ; :5 :B4B2 BB 3' 42E 53 E:98 :5 253B +52 ' .- ' 9 " ' ' 5 F' J' ; 2 283 4:52 3:932 2823 E2' 952+:'8:9E2B 52 2B8 +2 G 25 :9 +2 ; 5.288 ; ; 253 253B 352 ' .6 ' 29 8 25 +93 ?9 2+2 5 253B +5 3 >94 '4 58 8' ; 52 'A ' N 38 58 .2882 E2 ++2B 'B2325 B ; 28 < 8 $92 E2B8 E:98 '3:932 G29B2 253B +5253 E:8 <K < 8 ' ' E F' ! 8 +28 B: 825'3: ; G 53 25K 3B +5253+29B8 + 3329B8 '9 1 / ' ' +2 4283 5 25* 3B 352 .2+9' ?9' B 8 832 52 3 ?92 J9 428 .2+9' ?9'(293 ' ' ' 5 ' 6 J B 8 B +28 8253 ; 2538' 23 :B 329B 253B +52 3:98 +28 28<B 38' ' 253B +5 '3:93 +2 ; :542 4 58 8:5 8253 ; 253' 2 ; 9E 8 2A ; <+2 5:98 253B +52' ! 4 ; 2 8 +3 <<9R2B +2 8 25 H E 8 ' < B 428 B 8:58 8' .:5* E 5. 5328 ?9 2+2 ; '253B +5 2 42 8:5. 3 + , '8.'N' : ; ; 2 +8 52 J J5 253 B 25 E2.' +29B84:.328:9EB J28 23 ?92 +:?925.2 4 8 54B2 253B +5 3 +2 ; :542 '9 'E ;)' F' 3 :5 .B 53 8 < B +3 4 58 .2 5:9E2 :B J2 $9 5 25* 32 +52 <B 8 +9'3:93 95 <29<+2 E:+ J2 '0 ' "'>2 ; 2 + EB2 25 E29J+2 9 3B 58<:B3 ?9 ; 25* 3B +52 "'& ' V' ; 9B +2 B2+ 253 ?9 54 + ' .B 532 253B +52 '& 7' ' 58 .28 :.. K 8 :58 2 283 +2 <9G+ .'?9'253B +52 828 ; +3B28 23+28 :B.2 ' 82 : 54B2 '+9 % 9 ' ' / ' 28 < B:+28 4:9.28 23 + 3329828 ?9' 82 J+ 88253 .: ; ; 2 95 82B<253 8:98 +28 +29B8 +: 5' 42 4 <+ B2 9A <B 5.28 +28 .= B ; 253 23 +28 253B +5253 ' ' ' > , / '3' ; <'VC #0/(4*! ' +2' . 42 '+'<3 '4:53 2' 89 8 4 .= B 2 >2 5 R' <9 8 B 8 832B 2+2 253B +52 ; 28 8258 ' - ' E V' +93 4 B:G2B .2332 3254B2 E .3 ; 2 9 3 8.25K 4 53 ?9' 253B +5 3 9 .B ; 2 ' > " ' E V' +2 52 9J2 3 < 8 2+2 82 + 88 3 253B +52B ?F ' ' 9 ' , '3' 5 <'V F 4 58 ' :98 ; E2M 253B 35 '4 58 .2 .: ; <+:3 9* 52832 '9 " ' 'E F' G8:+9 ; 253' 2 .= B ; 2 42 .2332 +2.39B2 253B +52' 'E: A <9G+ ?92 253B +52 ! ; 2 25 8 25 4 53 :5 +9' B 8 832 ' <2 52 ' :52B ' '-- ' 3B2 +' . 982 E: B <:9B .:58 ?925.2' ' J92BB2 253B +52 E2.' 2+2 :9 <B 8 2+2 G 25 428 ; 9A' +2 ' .B9 ?92 ; '<2B32 253B 35 38' ; 52 '5 '&'V 5342 <B9K 425.2 253B +52 3B:< 42 8 5 '& ' ' ! 8 3B:< 42 E2B8 253B +5253 3B:< 42559 8 2B3* 9 ' ' ' 2B ; 2 42 9B 8<B9425.2' E: B <:9B 2 23 5 .288 B2' :932 <2 52 + .3 E2 23 5 ; 532 25K

3B +52 + '<2B32 428 4B: 38 . E +8' "6 253B 352B 2' ' 253B +52B 95 93B2' +8 82 8:53 253B 35 8 42 932 25' 932 -'# 'A568' 3 25: BM 8:5' 3 52 253B +52 D ' ,? & - 'E'"C C -' (!'> ' 23 'C '3B:9E2 4 58 E 5 $ ' ' ' 8 3 'Q 5*3B *5 / : 2B ; 242'.:9B82 23 42 JR ; 5 83 ?92' B < B2B < B 95 8R83 ; 2 4 + * ; 253 3 :5 23 42 ; 4 . ; 2538 95'.=2E '+' .:9B82 95 G:A29B 9 .: ; G 3 23.' 5 .=2E 52 <293 .:9K B B E2.'?92+?92 .= 5.2 42 89.. 8 8 5 ' < 8 3' 253B 35 -' (!'> ' '23 5J+' ' '4B2882B ?9' 283+2 B 5? 8 'Q 5*3B *529B/ ' ; ' 2+9' ?9' 253B +52 ?9'<B < B2 +28 .=2E 9A <:9B+'.:9B82 ', -' (!'> ' ' 'Q 5*3B / ' ; ' 2B ; 2 42*.= B<253 2B' '< .2 <B 5. < +2 4 95 .: ; G+2 <B 8 + '<:93B2 .2+2 ?9'8:93 253 +2 <: 5^:5 23 2 ; < .=2 . B32* ; 253 428 BG + 3B 2B8 4 58 .= .95428?92+8:5 3B:9E2 882 ; G+ 2 952 428 2A3B ; 3 8 42 253B 3 3 54 8 ?92 +'<:93B2 82B3 '8:9325 B+28 =:+ E28:9 +28 <+ 5K .=28' ' 58 95'. 53B2 82BE 53 '.:583B9 B2 952 E:432 :9 B. 42 + '< .2 <:8 2 =:B M:53 +2 ; 253 23 8:98 + ?92+2 8:53 +28 <:32 9A -'# 'O '8' 28 ; G J28 2882+ 2B8 23 53B 8 82B:53 49 < B J2 'R.29A .=2EB:58 3 53 25 95 8258 .: ; ; 25 93B2 ' ' ' + ' ' . '3'SS '42 + ' .:+2.3 :5 <' N N -' (!'> ' 23 'Q 5*3B 5 3B 5*3 / 6 ' 6 $9' 253B2' 2 ; 542M +29B8 G +238 9A <2B8:5528 256 3B 5328' 9G83 53 E2 ; 253' '<2B8:552 ?9'253B2' 28 253B 538 23 +28 8:B3 538' '+ 8:5 428 8. 528 82 3 < B + 'E92 ?9 54 253B 53 'E9 +2 8:B3 53 :9 +2 8:B3 53 253B 53 :9 ?9 +8 82 8:53 E98 95 93B2 ' 9 ' ' '" ' .= <'"' R 6 B 2A3258 :5 ?9'<B254'8:5 3:9B 4 58+ 2A2B* . .2 32 ; <:B B2 4 952 :5.3 :5' 2 E B . 329B 25K 3B 53' ' 9G83 53 E2 ; 253' 8:B3 3:98 +28 58 42 .:+2 42 B 8 3B: 8 + E28 ?9'E:53 ' .:+2 42 : ; 2 23 ?9' :53 <+ .2 ' 3B: 8 5:9E2 9A 25K 3B 538 " '# ' ' VCNC >, /' 3' AE <' VN"? 4 58 ' 6 J' $9'253B2 ?9'< * 5 3B2 ?9' 8 58 592' 5' =: ; ; 2 4:53 +2 . B .* 3 B2 ' 2 52 8 8 ?9:' 4 253B 53' :8 253B 53 : B:53 23 8 58 .2882 ; <:B3952 5' .2 32 ; <8 ; * <942:.2 E2 + ' :B3952 #7 ' # ' ' >2 52 89 8 < 8 253B 53 ; ' ^:5 283 B983 ?92 5U' 1' 'H+2 B: 5 ; 3 < 8 ! ; 2 42 : +28 2 2 E 3 3B:< 4 28<B 3 <:9B +9 23 3B:< 253B 532 23 3B:< 53B K J 532 I9 I1G' 'VC -'# ' J ' !:9+3 ; 283 G2+2 + '4:9.2 .: ; * ; 25.25.2 9 5:9E2 9 3258 ' 253B 53 42 < 8.:B H ?928 , * 'AE ' A 68' 3 < B +2 .: ; ; 95 .:582 + 428 B 5.: 8 23 428 B 298 9 42E 8 ' ?92 + ' 5:E 98 2 ; <2B2B28 82B: 3 .:B:55 8 ' + ' 2832 53 2B2 ' 253B 53 4 :983 6' AE6 8 + 283 253B 53 H4 95 .+2 .. 81 + ' 828 +: A * ..:B42 '. 8.95 828 4B: M ' ' 0 ' ' ' B 4 58 ' AE 6 8' >2 E:94B: 8 ?92 +2 492 4 +G2 983 <+98 253B 53 ?9 5 283 25 .: ; < * J5 2 ' ! , ' & 1 'Q / Q 5*3B *<2*+ / : ' ' < * <2+2B 95 93B2' 2 V5:98 253 < '+2B ?92 ; :5 ; 2 23 ; 'E 2 ' 3 , / ' ' -'# 'S 68' +8 8 253B2* <<2+: 253 G2 :5.+2 G2 9 .:98 5 23 G2 9 52E29 .:939 ; 2 ?9' 49B2 25K .:B2 253B2 +28 JB 548 ' ' " 28 95J8 :53 8:9 + '+29B8 + EB28 4 5 9B28 23 .:5E .28 8 253B2* <<2+ 53 < B 5 ; :8 3R =9J925:38 ' ' ' % ' ?'> ' "" ' Q / Q 5*3B *<B 5*4B / U 2 4:552B 428 +2^:58 B . <B:?928 -'# 'SE 68' 253B <B254B2 ' Da -' (!'> '23 "" 3' # ' Q / Q 5*3B *<B:*.= / .' ' <<B:.=2B 95 42 93B2' 5 5 :5' 8 253B <* <B: .=2 23 +28 B ; 28 .:53B B28 95 B ; < 3929A :53 .=:?92B +28 J + B28 % '0 -' '> ' ' "" 3' $ 'Q / Q 5*3B B*\2*G9*M / / ' B?92G982B 95 93B2' -' 'S 68' 3 49B '.2 < 882*32 ; <8 42 8 25* 3B2= B?92G9M2B ?5 3B2 :9B8 ' 'P ' ' '> ' 23 + , 1, % 'Q / Q 5*3B *8 *8 *5 / / ' ' 88 88 52B 95 93B2' :+8 2 :3'8:9E253 .28<29* <+28 5=9 ; 58 H+28 2 ; 58 2 8 253 88 88 52B 82 4:55 2533 G+ 39B2 ' '> ' 23

' & 'Q &/ Q 5*3B *8 *J5W/0 '
&253B& 88 J52B 95 B2542M*E:980 8& 88 J52B &95)'
& 93B2 95 B2542M*E:98'Lb 5.2B &95 .253B2 & 93B2
:52 88 J5 3 :5' +8 82 8253 253B& 88 J5 8
' ' :.-P (' 1"/%'1O((-7/"'&-"!' ' RM
-'$- ?' > '23
3' & ! 'Q &/ Q 5*3B *8:*33"/0 / ' '
& 88: ; ;2B 95 93B2' :98 B <<:58 89B 29A 23
89B 5:980 :98 5:98 253B& 88: ; ; :58 42 .:9<80
'9 '!
' ?' > ' "%F
3' & $ 'Q &/ Q 5*3B *3 *\N/0 / ' '
& 33 ?92B &95 93B2
-' 'O f (' 5 52 #*-%' 4*-/%' #"(-'"" ,!"" (-'
4!-((0/(' +*/e',!"(' (!"/%'1O%%0,!"/%' '0"(
-' ?'> '23 C +,
$' ' c0 c 'Q 5*3B *E *+40 ++420 ' ; :9 +*
28/0 6' 2B ; 2 42*G+ 8:5' 2 4 3 428 : 82 9A ?9'
8:53 B2<B48a_348 +28 +28 4< :R'280 ; 8 E2.' 95
G43:5 < 88" 253B2 +28 +28 23 +28 < 3328
-' (!'c5' "0 23 / ' 583B9 ; 253 42 ; B4*
.G'
$' 0 'Q 5*3B *E 50 E 5*3&/0 6'
9' 253B E?' 2 492 49 ! 52 8253 3 ?92 8' ; B2
52 +9' 82B 3 ?9&95' <: 48 :B3 253B E 530 ! '
Y' B-X
Qb 0 (' ' *8' 9
!" ' ' 'Q 5*3B *E40 E 2/0 " ' " '
0' 6 BB434 < B 428 253B E28' 5 .G2E + 253B E4'
' 6 J' 53B E4 4 58 828 3B E 9A < B+' ; 84B2
'Q 5*3B *E4/0 3/' :' # D! 233B2 428 25K
3B E28' 53B E2B 95 .G2E +' # 2B ; 2 42 9. :552B 2'
.. : ; ; :42B +28@238 42 : 82 5 42 ; 5 4B2 ?9& + 52
<9 882 82 44.= <2B:552B' # 6 J' ;G BB 882B0 J4*
52B' 53B E2B 428 :<4B 3 :580 +' ; B.=2 428 B28'
' F6 &253B E2B0 W' ' 2 <B254B2 4 58 428 25K
3B E280 ' J' 2 B2 ; 9392+2 ; 253 :G83 .+2' +8
8&253B E253 25 8:++ . 3 53 +2 ; 4 ; 2 <:834
' 'O f (' *!&0-/' "/%'0.#' c 'oX@
+, ' ' ' ' ' ' , 'NN:.-I' (' O/%*(%
&0 4"!" /*! (' 2&*/'" &"(' 4%"#(' "%&"(' "/%'0."' '
'M ' '/"4!-((*!$$'-'#!0&&"" #"(; *!%*//#' -&(' ("
("/%-'*-"/% "/%'0."<' #'" 1"(%'" U; *!%*/ ; #(J' -/' ^
)M ' '/1"(% 4&!(' (%" +4(' #'" '"7-+ ; '"' , !0/#*/' (1"(%
&0-((#"/%'0."''-/' Y)
'$- S&' > / '$4'*."/2' /
' Q 5*3B "B2B*84/0 3' ' 2B ; 2
42 ; B 52' ! 233B2 95 5 E B2 25 3B E2B8 B2+ 3 E2 ; 253
'952 .4320 ' 95 :G@23 ?92+. :5?92
' 'O f (' "(7"/(' #!' 408(' 0.*-"/% $0-2%
%'0/26#"(' "% $*(("<' 40" &"(' 26" +-/(' "% "/%-"'(' 0' ; @
; 0%%! 4*/%(' "% 4&0/26"(' '"/%'0."'(#'7'0/#(' 0' ; '"('
"/' &0 .*8"' ' "G " '9%/ /0&"(#" *!%(' S$$ 4 'Y '
#0/(' ! -%
-' (#' 5 "0 23 /
#& 0Q &/ Q 5*3B *E2B*3 B/0 E B4[+ & *
E2B3 B ; 9392+2 ; 253
' 'O f (' %" (%"/2*'"(' "/' ! (07"' "/%'"&"('
$&&&"(' #'" &' !/'" 260/(*/' 40" &0, !"&&"" " "(' (1"/%'0@
."'%-(("/%#"' /'" $0-'" 4+ /%' #"'7'0/#"(' "/%0+ ; #"H'
? ' '
f ?' > ' "% /
'Q 5*3B *E&/0 ' '" , '# &' 25 ?9&:5
; 23 9A@ 35G28 42 .2B3 58 5 ; 9A 23 < B3 .9+ 4'
B2 ; 253 428 .=2E 9A' ! 233B2 428 253B E28 '95 .=2*
+IL 2583 8 348 ' 2 23 4& G 33B2 +28 5 ; 9A 23
42 +28 A2B <:9B+28 :<4B 3 :58' LL 2 ; :3 ' 988' 95
8 5J9+ 2B' . B :5 <293 ; 233B2 952 253B E2 :9 429\'
253B E28 '95 .=2'' . 232B 952 253B E20 <2B4B20
+ 882B3: ;G2B 952 253B E20 7< '# ' J'
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E E 5388W33 3 *G 8 282+ E280 ! 80 89 E 53 .2?9& +8
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4& :B23+28 3B2842 2B0 ?88 ' # '5 ' :98 52
8 9B :58 G 82B 5:8 2B8 23 5:8 253B E280 9 +2.329B
444 J529A =:5:B G+28 282+ E280 '>" 'E ' =K
+<<2 <<2+ 3 .2332. 3 42+2+28 253B8E2 423 BG220
#0# ' ' >, 5'3' (#8: :0 4 58
'+28 4.+ B2B '89B+2 . B 234B2 42 5:3B2 \5J920 89B
828 253B E28 23 828 B288 .280 8 'B 2 e 82 23 8:5 5K
4 J25.20 +' '42 828 +: 8 23 +' 8 5J9+ B 34 42
828 G M BB2B 280 "' '6 ' 3 & ' ' ; 5
49 +8 428 GB E28 9 <29<+2 42 ! :BE 5 'GB 84 +28
253B E280 5: . 80 3 ' / ' "'H 8f 2+29B .= 352
=:932982 4:B253 +28 253B E280 3 45 <+98 E + 3RB 5
8:53 +28 <+98 E +8 282+ E28 : :E40 6 ' ' ('
0 '+2340 B:9.=225 . :B20 '3B E2B8 .28 253B E280 +2
BG ; 88258 +29B<: 480 4J2B <:9B 42 ' 282+ E280 " !'
+0=' 0 ' ' $9: + <:9B + EB2B E:8 ; 58 '
4& 54 J528 253B E280 ' ' 50 %' : 53
4&253B E28 '+' <25842 B :B4:55 5.2 42 . .=980
7' # ' ? 'IL 5 :2 82580 + 8&2 ; <+: 2 988'
' 8 5J9 8B' ' @2952882 ' G28: 5 42 ?92+?92
253B E2 ?9' +' B23 2552' 58 253B E2 : ' +:5
< 24 82 8253 <B 8 25 BB 2B20 E' / ' 'D7#)'
/# 5 ' '
-' (!'<- ' 23 95' B 4 . + # 5 P <:B39J'
5 'G 3:50 + 25P 49+ 3 53B G280 <:93B2P + <:93B2
<2B242 42 3B:98 R 53 82BE' 4' - # 5 # +28 < 248 42
4232598 0 . : ; 2 :5 +2 E: 3< B .2 < 88 J2 42 B4J: B2
42 :9B8' 3B G28 + '?982 E .3:B9 ; '<2428 . : B.3 G 3
Q. 32 4 58 R5:9 B40 B =7 ' 9 ; :3 - # 5 #9
3' 'Q 5*3B *E:5/0 8' ' 23 32 < G.2 42
.9 B 4:53 :5' 253:9B2 +2 < 39B:5' 49 .G2E + <:9B
?9& + 52 8: + < 8 G+288 ' < B 253B E2
-' (!'<- # 5
j' & 'Q &/ Q 5*3B *E:9*2/0 5' # ' & *
:92B ?92+?92 .=:82 B2. <B:?92 ; 253 95' ' 93B2'
<BG8 8&25' 23B2 42 ; 542 + 'B 8:5' &95' ' 93B20 +8
8&253B& :9GB253 +29B < 88 :50 c 'D ' - '
:-/ ' %
-' (!'<- # '23 5!7 #
'Q 5*3B&/0 # 'IL 0 58 28< .2 ?9')'
< B2 429A :9 <+98 29B8 :G@238' '283 88 8 253B2 29A
429A' :9B8 283 253B2 B 8 23 :B42 9A' 2G 3 ++:5'
823B:9E 253B2 429A 29A 284 5J2B8?9& + E 3.:9*
B98 253B2 .R++ '23 = BRG420 ', ''#2B ; :520
82 J529B0 BB 32B 'E:8 . :9<8P 28 R29A 8& :<<:82B:53
253B2 8:5 <GB2 23 E:980 '& '0 'H> 898*
2GB 'I'E 53 ' ; 233B2 253B2 828 :94B28 H42 291 23
5:8 .B ; 280 # ' BG 520 88' 53B2 +28 429A 2 ; K
< B28 + 82 :B ; '428 4482B38P 253B2 +28 429A 2 ; < B28
:5' 93 3:9@:9B8 8:98 +28 B ; 280 ('< 'AA 0
"N' :98 ; 2+ 882B2M E EB2 253B2 .28 ; 9B8 8 2BG8
$9242 E:8 2552 ; 8 ; :5 GB 8 '4G+ EBG80 : '$ '
0 ' 8 H+28 429A =43281 82 ?9 33GB253< 9B ; 233B2 42
JB 5428 BGJ :58 253B2 +29B8 3: ; G2 9A0 '
H - ' 0 0 'IL ; + GB2 ; 253' ! 233B2 ?92+?9&95
253B2 ?9 3B2 ; 9B ++280 +2 ; 233B2 25 <B 8:50 U 5K
3B2 429A 2 9A0 8:98 2 9' J2B 253B2 429A 2 9A'
' 53B2 429A E 580 4 58 95' G3 3 E: 8 5 42 EB2882'
<:9B GE 32B G 25' 428 + 9A0 293*:5' 89 EB2 ; 'B2*
.2332' 52 :5 5 J2 253B2 429A 2 9A0 3 ?9&253B8
429A 58 :5 82 ; 23320 # ' ' 'IL 53B2
?9 3B2 R29A Q:5 <B:5:5.2 253B2 ?9 3B2*M*R29A/0 829+
'829+0 8 58 3G ; : 58' IL 2J B42B ?92+?33&3 ; '253B2 +28
429A R29A0+2' B2J B42B S2 ; 25 # 53B2 +280 GB 80
89B +2 82 5' 28 25 538 ; :9B 253253B2 +28 GB 8 42
+29B8 ; GB28' 328* ; : 0 ; :58 29B0 G3B2 253B2 +28 GB 8
. : ; ; 2 E:98 4 3280 :9 B2 4 58 +28 GB 8 . : ; ; 2 4 3
9 5 9+30 .2+ '283* + 8R5:5R ; 2 A :5' '1233B2
, '6 ' 29 3 25332' .:29B428 B 8 253B2 828
<:9(: B 42 ' ! :5 G:5=29B 283
; 58 <9 88 53280 ' < &' 0 ' ! :5 G:5=29B 283
253B2 E:8 ; 580 F' ' '" ' '0 "'
' 53B2 828 ; 580 25 < B+ 53 4&95 ; 442. 50 4&95
E: . 30 4&95' <B: 28829B0 4&95' 4 B2 .329B 42 . :5K
8. 25 .20 23. ' 8Y5 2 G3B23B 3G< B+9 0 G3B28:98 8'
4 B2.3 :50 23. ' 2 ?9 B 532*429A ; + 428 ' + H# <*
<:.B 32I E:42 ?9& + 5&R 25' ' 29 ?924 A*82<3 ?9& + 3
J9GB 80 23 ?92 3:98 +28 93B28 8:53 B ; :B38 253B2 828
; 580 'D7 ' ' A 0 + E' AAE 0 .=' "0
)" ' ' 53B2 ?9 3B2 <+ 5.=28 04 58 +2 GB.92 LL 5K
3B2 2 2+ 23 32BB20 4 58 B0 9*428898 49 8:+' +' '
5'828@:9B8 253B2 . 2+ 23 32BB20 + ' G3G <2549'
' J' 53B2 +28 429A0 5'G 25 5 ; +' 83*2 2+ 42'
53B2 +28 429A' IL 2B ; 2 42 ; B 52' 5 G 3 ; 253
'+2 E253 253B2 429A G. :9328 +283 <:988G
< B95 E253 42 BB GB 'IL J' 2 3B:9E2B <B 8 253B2
+ ' E2BJ:2 23 +28 B G 580 G3B2 4 58 52 8 39 3 :5
; <BGE92 23 .=2982' IL ' + 82 4 3 428 :G@238
532++2 .392+80 ; :B 9A0 G83B 38' &G: ; ; 2 <+ .G
253B2 +2 E .2 G3 + ' E2B39' +:332B 253B2 +' < 3 25.2
23 +' .B 532' 5 G3 3 ; :R25' 253B2 +2 < 9EB23G
23 +28 B .=28828' 5 52 ; 23 < : 530 4 9G .2332 E ++20
42 4 2B25.2 253B2 +28 E:+9<3G8 23 +28 G2 : 580
<'9 " ' '2 ' "'IL B2 253B2 +' E 2 23 +'
; :B30 0G3B2 4 58 95 4 5J2B ; ; 52530 <BG8 4&2A*
< B2B 5.2B3 5 42 8' . :54 3 :50 253B2 +' ; :B3
23 + 'E 20 'D7 ' 0 "'@0 6 + 82 ' 30 85' 95 8258
5 +:J920 4&933 532BE +2 ?9'5&283 ?9& 4G +0 ; :B +0
253B2 /28 <2B8:5528' 2 325 B 253B2 429A < B3 8'
3 J9G 42 ; 2 3B:9E2B 253B2 429A =: ; ; 28 ?92 @2'
52 <:9E 8 . . :B42B0 Q' 9 ' A5 ' & 3B2 89*
<BG ; 2 25 + 0 <+ .G 253B2 +28 B: 8 :<<B28829B8 23 2a
<29<+28 <<B ; G80 <:9B 2 B R2B +28 B: 8 23 E25J2B
+28 <2:<+28P 32+ 283 :G@2342 .2 23 3 BG ; 20 4 J52
4&G3B2 <<B 8 < B 3:98 +28 25 538 4283 5G8 'BGJ52B0
:? '6 ' 'IL ' 58 95 32 ; <8
?9' 89 3 952 G<: ?92 23 25 <BG2G42 952 93B2' 53B2
; 4' 23 952 G29B2' 53B2 429A 8:+2 +8' 53B2 +2
2E2B 23 +2 :3 .=28 49 8:+23+' 53B2 ?28 429A . :5K
2B25.280 +' . : ; < J5 2 H& . 4G ; 2 B 5? 821 <2BK
; 3 '##' . 520 + * :53 52 23 28<BG 9A0 ; 8
42 9B23 GB2 4G8 25 5.20 4& 2B +2 E: B 9 5: ; '
42 3:580 <:9B +2 4 8<:82B '4:552B 428 ; B?928 42
8 '8:9 ; 88 :50 ? 'D '?("' ' ' - ' '
4 58 ,-,4 ' IL 53B2 32 ; <80 <254 53 .2 32 ; <8*
+' ' 53B2 + ' < : B2 23 +2 B: ; J20 E:R' 7
' 53B2 .G 25' 2+ +:9<0 E:R' 'Ib 53B2 .'23 + 0
E:R' ' ' Rf / 2A<B ; 2 %* B <<:B3 ?92 428 <2BK
8:5528 :9 428 .=:828 :53 952 E2.' 93B2' & .*
.:B4 . :5.+9 253B2 + ' B 5.2 23 5J+232BB2' + R '
<B:2G80 ?92B2+20 ; 3 G0 5 ; 3 G 253B2 .28 J258* '
$9&R' *3* + 42 . : ; ; 95' 253B2 E:98 23 ; : ^ 2882 ; *
G+ 5.20 4 GB25.2 253B2 429A .=:828' ' + 8:5'
?92 .28 ?9283 :58 :53 253B2 2+28' 0V 8& 4253 253B2
29A' +8 < B+ 253 253B2 29A' 53B2 ; 8 +' 52 93
<: 53 42 .GBG ; :5 2' 53B2 E:98 23 ; : 0 2&283 '+'
E 2 ' + ' ; :B3' &95 :5 ?9' 283 253B2 +28 = : ; ; 28
5&283 :54G2 ?92 89B .2332 ; 9392+2 3B: ; <2B 20 23
<29 4& ; 3 G8 89G8 832B 2530 8' .= .95 8 E 3 .2
?92 8:5' ; '4 3 42 +9' +:B8?9& + 5&R' 283 < 80 '
0 - ' < B30 0 B3' %' B: B2 ?92 5:98 <:9*
E:58 < B3 J2B .2 . :29B 253B2 + '2BG 35B2 23 290
253B2 5:3B2 < 88 :5' 23 290 " ' 07#)'
! - ' " ' 'R #/ 'C ' 3' + 0 <' %"0 4 58
<:9 ' 53B2 +2 < 9EB2 23 E:980 E:98 <B254B2M
29 <:9B @9J20 '? & 'E0 ' $92 +2 2K
J529B ?9' 5:98 253254 8: + 253B2 E:98 23 5:980
0 D ' 7/ 'A 0 " ' + + ' E2.' +9' 952 G3B: 32*
; 3 G ?9' 42<9 8 52 82 4G ; 253 3 @ ; 80 .=:82
882M B B2 253B2 429A <2B8:5528 49 <B2 ; 2B ; G*
B 320 23?9' . :9B253 + ' ; G352 . BB GB20 'D7 '
-(' 1<75#' ' A 0' "66 < B3' <' "C 0 4 58 < : :*
.58' 3 ?92 .2 29 8: + @9J2 253B2 G 42 23
; : 0 ' - 'E0 "' + 93 42 + ' @983 .2 25K
3B2 +2 <B 5.2 23 +2 89@23P 42 + ' 3254B2882 253B2 +2
<GB2 23 +2 +8P 42 =' 4G+ 3G 253B2 + ' '23 +2
; B+P 42 + ' 89G:B4 5 3 :5 253B2 +28 BGB28P 42 + '
:5. :B42 253B2 +28 ; 80 ' - ! - ' " '
-(' & ' 81& -! 9' #: ; ; 2 <23 3 23 G+20 ?9&R
3 + 253B2 3:5 23 3: ^ >' ' 'K ' 0 '
N6 : +4 3 253B2 5:980 :90 2++ <3 ?92 ; 2530 253B2
5:980 2&283* *4 B2 ?92 .2+ '52 8: + < 8 B24 3 ' 9*
3B280 ; 8 42 E:98 ' ; :' 829+2 ; 253' : + 4 3 253B2
5:980 @2' +2 :B: 8 :B3 J5:B 53' &28395=: ; ; 20 25K
3B25:980 'B:252B < B +2 52M0 ', # 'E0 N' ++2M0
2&283 82 ; : ?92BP E:3B2 2 ; ; 20 253B2 5:980 830 < B
E:8 + .G23G80 8:9E2B 52 89B E:980 ' 5'
$ 'R 2.' : 3 4 3 253B2 5:98 429A0 8 '" ' 28: 5
4& ; ; :+2B 3:93 '8:5 <:9E: B 89<BG ; 20 53B2 5:980
E 3* + 4& 93B2 :G@23 ?92 E:98* ; G ; 2 C ' < &'
++0 "' 83* + 4:520 253B2 5:980 B 25 42 <+98 428< :*
3 ?92C 'D#7 7 '50 ' L+ 53B2 E:98 23 ; : 0
; G ; 28258 &2830 253B2 E:982' ; : 0 :<BG84&95
<= +:8:<=2 95 :B3 .=G3 '2 ; <+: 0 "' !
' , '"' ' 53B2 5:980 8 J5 2 988' 8 58 <2B*
8:552 4&G3B 5J2B' :98 4352B:58 253B2 5:98' IL *
; + GB2 ; 253' 53B2 5:98 3:980 2&283* *4 B2 5:98
2582 ; G+2P 253B2 29A 3:980 2&283* *4 B2 29A 2582 ; K
G+2' 8 5& E 253 253B2 29A 3:98 ?92 82<3 B 5.8
'4G<2582B' IL 53B2 23 95 <B:5: ; '<2B8:552+ 9
<+5B 2+0 8 J5 2 8:9E253 8 58 8:53 B 42 + ' .+ 882 : '
:5' 283' +8 82 ; B 253 253B2 8: +0 253B2 29A' 28
EGB 3 G+28 8 J28 E E253 253B2 29A B23 BG8 233B 5?9 +*
+280 S :G:92' &E:98 ; 5 : ; GB:' 420 < B ; '
$92 + ' E: A . : ; ; 952 428 =: ; ; 28 ' 3 882: B
253B2 +28 4 29A0 '9 ' F' R 53 . :58 4GBG
G: ; G 25 95' ; G ; 2 =: ; ; 20 E2.' 8:5' ; G ; 2 28K
<B 30 G3 535:9BB '428 8:5 G5 5.2 253B2 428 B 5*
. 8 :9 428 ++2 ; 5480 42E 253 4 GB253 42 .2 ?9& *
82543 8& + E + 3:9@:9B8 EG.9 E2.' 428 = 5: 8 :5'
428 . 55 G +280 'A '50 "'H : ; 2I :98 <BG*
< B2 4G@' 428 32 ; <+280 428 932+80 3 +2 42+ 952
<+ .2 253B2 +28 ; : :B32+80 ' 'E0 ' 2X
JG5842 ; : G+ 20 253B2 ?9' +28 2 ; 58 53 4G@'
B22:559 428 GB280 428J2B ; 580 ; 'O "'E0"'
2B3 5 .= JB 5' . :5?9 4 58 28<B 3 42 + 'B2 52 !& '
30 253B2 93B2 E 80 283 ; 2B '<B:<:8 2 25E:R2B '
' ' ; 0 N' :98 ?92 B 253 . : ; <32
253B2 828 <+98 JB 548 B: 80 ' ' 0 "' 3 8& +
32 93 .G:B G2B0 (' 5&283 ?9&253B2 +28 ; :B380 "'
? ' 0 "' 83 5J9 3 ' 93B2 +28 <B2 ; 2B8 4G+28
.29A ?9' G3 253 49 ; :542 42 .29A ?9' 5&25 G3 253
< 8^ ? ' ; 503 'LL 53B2 93B280 82 4 3
?9 54 :5 E293 4G8 J52B 4&952 ?:5 < B3 .9+ GB2
?92+?9&95' :9 ?92+?92 .=:82' >& 'E 8 3G +28 <B 5. *
< +28 G G+ :3=G?928 42 &+3 + 20 253B2 93B28 .2++28 42
; :2' ' 53B2 3:980 9 89<BG ; 2 42JBG' &283 952
.=:82 5@9832 253B2 3:9328' IL B E2 253B2 +28 GB E280
2A3BG ; 2 ; 253 GB E2' L F6 + 2A<B ; 2 988' 4 83B G9K
3 :50 82< B 3 :50 4 83 5.3 :50 .=: A' '82 4 83 5J92
253B2 3:98 828 4 8. <+280 ' ! *' , '9A '
" ' $9 53 + 25 5&:82 4G. 42B 2592' .28 429A
JB 548 :B 329B8 H G ; :83GG52 23 2GB:5I0 ?9: *
?92 <:9B3 53 + 82 ; G+2 + 882B 253B2R: B ?92+?92 <B2K
4 +2.3 :5 23 95 <25.= 5382.B23 <:9B 2GB:50 ''
9 ' '>' E0 "0 + 3 +2 < B3 J2 253B2 3:98 +28

++ 8 W W.' 952 JB 542 4?9 340 5U' D ' - ' 8C 7)'
5# ' 30 9 0' <' " ! 0 4 58 7 ' 53B2 ?92+8 3K
3253 38 93* ?92 @2' .=: 8 882^ ' ? B ' E0 '
7 ' 53B20 .&283* ! B ' 3 53 42 &95 ?92 42 & 93B2'
53B2 < 2.28 42 N B 5.8 23 < 2.28 42 ' B 5.80
+R E 3 4 58 .2332 G: 9B82 ' B 5.8' LL f &25*
3B20 49 ; +29 42' A @: 9B8 E 53 + ' < 3?920 >'898
53 3 '3= 5 20 : 3 + E + B28898. 34' M B:' 4&25*
3B2 +28 ; :B380 ' D ' 5 ' " '@' - ' A 0 3'
B ; ' $92+?9&95 4&253B2 ' > 0 B 253B20
< B & 532BE +2 42B' + ++ 3 +32B 9A 2552 ; 8 < B
253B2 +28 429A E ++ J280 8 *8 9 ' 0 3
- ' #' +) ' 5 + 42 - # ' 8&4+ 42 4 58 +28 .: ; K
<:828 42 .2 ; :3 + 253B& .320 8&253B& 42B0 23.' ; 8
4 58 3:98 +28 93B28 . 8 :5 5&2 ; <+: 2 < 8 & <: *
83B:<=2' 253B2 29A0 253B2 2+280 253B2 93B280 253B2
:5M2 =29B28 23 ; 4
S ' (' O I' ' +2 89B<+98 +28 :B<= 5 58 23 +28
< B2538 42< B3253 H< B3 J253I' 253B2 2+80 ! ' " '
H7 ' ' 53B2 828 <: 5M H+I' 325: 3 8&= 5832 B 8*
5 520 1&' ' ' .! ' ' LLA 6 8' H 28 .=:828I' 8 82*
52 253 253B2 < 2528 +: 80 :5.' <' C' 53 +8 H29AI'
8:53 G 25' +' ; +2 .=2E + 2B0 ' <' C' ! :B3 H +I' +2
3B2G9.=2 253B2 ; + B G M0 ' <' ' H 8I' 253
253B&29A 3 B 5.' :53 +28 <:BM < 88280 ' <' 22' 3
?9& + 5& E 253 8:9E253 92 @2' ; &:9G 0 <258 53 H<25*
8 I' 253B2 + ' J2530 :92 0AE ' 92 E253 ?92B 53. + :+
G2BJ2B0 $9& + 52 E 25525 3 6 ; ' 4 ; 2 82BE B0 $9'
; 298 8 9B: 3 +2 ; :53 H ; :542I' @983 . 2B $9&253B2
298 3B283:98 4&95 < 9EB2 G:9BJ' @: B0 ' ' '
#' .! - #! '4%' 2 J5:B0 < B 32+ ; 5 2B20
598 H593I' 5&25 8: 3 4:93 580 9 ; 2 2 + ' J92BB2
53B2 8528 23 B 5.80 @ B ' E' 53B2 . ' ?92 8
<:B328 5&' :3 BB283: 8:50 ' E 5' 53B2 .28 B280
' B2 8 E 4 6 95 @9B +2E 4 <B 28 ; 2B 252 H ; NB *
4 2552I' 8' 82 +:93 H ++ 3I' 28G 5 53 H ; 98 53I' 25*
95 8:G2B' .! ' <' M ' LLA9 6 8' ; <B' ' <B 8B253 25*
3B& 98 H29AI' +' G B:5 95 < B+2 ; 253 ' ' 88:580
#' E 5' '492G: 82 8 ' 892B H8:29BI' 253B2 828 GB 8+ '
<B2530 D # ' 5.' 9 8 H2+I2I' 4 83 253B2 828 42580
?92 59+8 52 & ' : 30 3G' 6 ' 53 ' E: 3 3B28:B 253B2
BJ253 23 :B ,+ B H3 53 25 BJ253 ?9&25 :BI0 3G'
.E9 ' +:58 ' + ' < B+2B0 8 B20 253B2 E:98 23 ; : 0
3G' .E' 2B32 9 25 + ' .= ; GB2 ' 53B2 +9 ' 23 R*
; :5 23 :583 5.2 8& ; 2H253B2 29A3B: 80 2 20 R*
; :5 23 :583 5.2I0 3G' .A A' 3 +:B 4 83 ?9& + E25 8*
8253 25 82 H8 I' ; 28:5 253B2 ?9 25 23 +29 H.= 25 23
+: 9<I0 ' (' $:' " ' 3 <: ' N + B2?92BG 253 ?92
+ ' B2 ; 5 58 983 < B3 8 J + ; 253 253B A H253B2 29AI0
93 53 &95 .: ; ; 2 & 93B20 ' ' " ' ! :982 *
J529B ; G2B3 42 2 9@29 283: 3 9 42=:B8 42 &:830
253B2 + ' 23 H3 53 +9 ' ?92I' +2 ; 283B2 428 BG +283B 2B 0
+ ' "C' 53B2 +28 93B28 H253B2 93B28 .=:828I0
+' ; 54 ' ?92 + 283: 3 <B283 42 + ' 4 2B .:5?92BB2
+ ' 32BB2 8 5320 5' " " ' LL AE6 8' 2 ; 29B ' ; :582 *
J529B42 # 5 93 253B2 +28 5J+: 80 ?9 ' +9' 8: 253
3:9@:9B8 3:932 &=:5529B 23 .: ; < J5 2 ?9& +8 <: 9*
E: 2530 Q ' 0 0 %' <BG8 4 52B0 95 JB 54 =9*
3 5 .: ; ; 25? ' 253B2 +28 J B4258 428 59R2B8 23
+28 B.=2B8 4& 5J+232BB2 ?9 ' 253B2 29A 283: 253 =2B*
G2BJ480 <: 9B :.. 8 :5 4&95 @29 42 4480 ; ' 0 0 "'
>2 E29 + ?92 253B2 5:98 '5:98 25 + 258 5:3B2 .=2*
; 5 ; 2*59 3 ' 23 +2 4 328 988' &95 & 93B2 23
3:93 .2 8: 3 3259 25 82.B230 " ' 50 50 ' 3 '
8&253B2*2 ; GB 882B < B 253B2 +28 3B:9A N &253B2E92
42 2.?9 J5RI0 ' ' ' 2 B:R 4:9 B4 283: 3
G2 9 <B 5.2 253B2 +28 G2 9+A 49 ; :5420 ' " '
2 492 = + <<2 +2?92+ 253B2 3:9328 +28 ; 8:58 49
; :542 R ; : 3 .2332 ; 8:5 42 :9BG:50 ' ' '
' AE ' 8' $92 8' @&29882 2834 253B2 .28 5 3 :58 H.=2M
.28 5 3 :58I0 ' ? ' (' <' A5' BB .=2B 4&253B2
+28 ; 58 428 82BJ2 5380 ' ' 2 4 2B25.2
253B2 +28 9+328 ?9 ' E 255253 42 5:83B2 G+2882 23
.2+28 ?9 ' ' 0 "' 53B2 95M2 =29B28 23 ; 4 0
' 0 C ' 53B2 +28 .R3=280 ?9 54 +28 42E 58 E: 253
+R 42 B25.:53B20 " ' ' F' 9A G 33 +28 4:5*
5G28 253B2 +28 JR<3 258 23 +28 2B8280 ' ' 7'
28 ; 242. 58 E E253 = 25 253B2 +28 ; + 4280 ' '
C" ' 5' R' 0 253B2 93B280 429A <B 5. < +28 28<2.28
H4&= 83: B2I0 ' 0# ' AA0 "C' ' 93 2 ; <:B34
253B2 +28 GB 8 42 828 J258 424 58+ ' E ++20 5U' 0 7 ('
' ! 93 98 B2J B4 53 B 5.=2 ; 253 :B825 ' 253B2
429A R29+A0 ; ' ' 3 9B253 +28 958 392M < B
+28 2552 ; 8 ?9& +M E: 253 4:80 +28 93B28 < B
253B2 39A ; 28 ; 280 ' ' (' 7
' ' . B40 532B -2, /&35' 23 28< J5' - # 3
3 +' - # 3 49 + 3 5 - #' &3+2&A 13 92+' - #
0 ' Q 5*3BN0 3B42/0 # ' '4&253B2B'
$9 '283 ++ '4 58' ' <2 52 253B4 4 58+ ' ; 8:5' LL J'
>2952 G: ; ; 2 ' <2 52 253B ' 4 58+ ' E 2
* C ' Q 5*3B2*G *++ 0 20 ' ; :9 +*
+ 280 23 5:5 5*3B2*G *R40 R 2/0 # ' ' 28
E 4238 253B2*G ++48

j' 3 * S+ # BB h 5*3B2*G 3* 2* ; 50 '
; :9 ++4280 23 5:5 5*3B2*G *R2* ; 5/0 ' ' 3 3 42.2
?9 ' 283 :9E2B3 ' 42 ; ' &253B2*G ++2 ; 253 4&952 <:B32
* ' Q 5*3B2*G *++ 0 ' ; :9 ++4280 23
5:5 253B2*G *R4U02' ' 9EB B 95 <29' 53B2*G_ ++2B
952 <:B32' 2 ; B?9 8 H42 +25 I' 8&R 3 53 <B *
8253 ' H ' + ' <:B32 49 B: ' 4& 8< J52I0 95 428E +238 &25*
3B2*G ++ 23 +9 ' 4 3?9& + +9 ' 3 3 4 2549 42 +2 + 882B
253B2B0 : "C%0 " %' LL &253B2*G ++2B0 / ' '
.2 ' ; : ; 253+ ' <:B32 8&253B2*G ++20 23 @& <2B? : 8
- ' # ' AE ' 8' 2 4 3 :9BJ9 J5:5 G ++ ' ' .2+9R
B.= 2B0 25 253B2*G ++ 53 +24 ' 3 J9 .=230 4&952 4 J92
424 58 +2 E253B20 ' ' ' 1&#! - ' " " %'
' S 6 8' $9 54 +28 :8 8&28+: .=2530 8&253B&:9EB253
23 253B2G ++2530 8 58 3:932 : 8 283B2 +9A 80 #'
(*+ ' %' @ ' ?92 < B +2 ; : 25 49 .: 5 + ' 2532 253B2*
G 2B 0 :5 < B 2B ' + ' <B2< B 3 :5 428 JB2 280 :
'
- ' (! ' > ' 23 1 ' < . B40 1 4 '
253B&:9E2B3
* ' Q &/ Q 5*3B2*G *M /0 / ' ' 2
G 82B B . <B:?92 ; 253' >2 428.25480 5:98 <:9BB:58
5:98 253B2*G 82B 3:980 ' - 1 ' + 0 "%' & *
3 3 95 8<2.3 .+2 3B 8* ; 98 530 ?92 42 E: B .28 <2*
3 328 .=25 ++28 ++2B 23 E25 B0 +28 9528 4&95 . 3 0 +28
93B28 4&95 93B20 8 58 .: 5 98 :50 23 8&253B2*G 82B
.: ; ; 2 +28 :9B ; 8 ?9 54 2+ +28 82 B25.:53B 253 '0
0 $ * ' C1 / ' "
- ' # ' S 6 8' ! 82B . :B42 2 E2B 324 25:953B2B253
' 82 I' @983 .2 2 < 8 8&253B2*G 82B2530 = 1 "
<' " " :52 82 8:53 <B28. ' H <<B:.= I0 $9&25
< 8 8&253B2G 8 88253 23 25 E2 B2 HEB 2I' ; 83 0 ,&'
' ' " F' LLA 96 8' <B 8 .283 ; :3 8&253B2*G 8 2*
B253 + ?9 ' :5?928 52 8&253B& ; 2B2530 2 @ ' @:B 52
8&253B ; 2B:530 B2 <92253 H<29E253I' .2 ?9& +E:4B:530
25' %FFC' ' S 6 8' ' 283 2 ; <+ 83B ' 28.988:50 42
32+ +2 8:B32 ?9& + @: 53 &28.:B.2 42 & BGB2 42 3B: 8
4 E2B8 254B: 380 8&253B2G 8 58 < B 32 ; 253 +28 28*
.:B.28 49 B 5.' 23 49 8 9E J20 :' ' C
- ' (! ' > ' 23 1
3' * ' Q 5*3B2*G 5*4&/0 ' ' 2B ; 2 42
.: ; ; 2B.2' 2 4 349 .: ; ; 25.2 ; 253 23 42 + ' 5
4&952 < .2 4& 3: 2 42+ 52
' Q 5*3B2*G /0 W' ; ' 2B ; 2' 42 GB *
?92' : J52 ; 253 3B:< JB 540 :9 4 83 5.2 5 J +2
428 +8 42 + ' .= +52 4&952 3: 2 I' 2&283 95 4 9342
GB . 3 :5
3' * ' Q 5*3B2*G /0 8' ; ' R5:5R ; 2 4&25*
3B2*G 542' 28 GB . 53882B:53 32598 42 B2E 3 B+28
3: 28 428 + 8 B280' +32 9 ' :5 253B2*G 38 54 ?9 8
< B +24 3 3 G+2 90 ' ' '@9 ++ ' "CF 0 B3' " '
' 5 3B:9E2 988' 253B2*G 3320 '
3' 3 ' Q 5*3B2*G /0 ' ,' B3 2 ?9 ' 82
3B:9E2 9 ; +29 49 G 3 4&952 G 32 42 8: ; ; 2
3' * S ' Q &/ Q 5*3B2*&: *3B&/0 3U' ' 2
G 33B2 95 93B2' ' 82 ; G+2 ?92 G28 93B28 828: 253
253B2*G 3398 ' ?9 ' ' 3 ; 0 &" ' <' "7'
&+ ; ' @9B 30 93B2 5@9B 30 3:988&253B2*G 33 2530
8. ' < ' * ' 0 ' LL E2.' 2+ <82 42 ' H & *
4 : 32 = 9882B R2 4 3 9 B: I' ?9&2+2 52 82 8:9. 3
< 8 <+98 4&95 428 429A < B3 8 ?92 42 93B2 I' ?9& +2
5& 3 3 3:9.= 2?92 42 8 ' 8 53 0 42 8 ' 3B 5?9 ++ 3 0
?9& + 52 .:582BE2B 3@ ; 8 ?9&25' +28 + 88 53 253B2*
G 33B2 3 53 ?9& +8 E:94B 2530 : '%%%' %S%
- ' # ' AE ' 8' 2 5&283 < 8 ' B 8 5 ' 25 B 5.2
829+2 ; 2530 ?9& :5 8&253B2G 3 <: 9B +28 G 258 23 = : 5*
529B8 42 .2 ; :5420 .: : ' 0 C' LLAE 6 8' :98 5:98
253B2G 33 :58 ' ?9 +& 9B: 30 " ' <' %%" ' # 8<:9B
52 53 8:5 .:29B 8&25 B28@:9 30 53B2G 39 49 428 B
42 + ' J+: B2 3 42 28<: B 4&2 ; <:B32B + ' E .3: B20
' MAE
- ' (! ' > ' 23 1
3' * ' Q &/ Q 5*3B2*G 5* *B&/0' / '
' 2 B2 49 G 25 B . <B:?92 ; 253 95 ' 93B2
- ' # 0 AE< 8' =2B.= 53 :5 23 93B20 <+98
?92 3:932 93B2 .=:820 42 8&253B2*G 25 B20 .2+9 '
?9 ' 25 <B2832 :.. 8 :5 283 .2+9 *+ ' ?9' 3 +2 + K
G2B +0 ! ' 0 "%
- ' (! ' > ' 1 ' 23
j' * ' Q &/ Q 5*3B2*G+ *8 / ' 2
G+2882B 95 93B2' 28 G:9BB2 9A 8&253B2*G+288 B253
25 8& .= ; 53 ' B <<2B +29B8 E .3 ; 280 ! ; 9 0
4 58 +2 ' " '
- ' (! ' <- # ' 23 #
3 $5 ' Q 5*3B2*G:9*\&/0' ' 2B ; 2 42
< .=2' B2 ; B2 .= 5GB2 428 G:9B4 J9280 49 . 3 '
42 253B 2
3' * ' Q &/ Q 5*3B2*GB *M /0W' # '
GB 82B 95 93B2
- ' # ' O I' 8' 88 8 25 428 .= B28 ?9 ' 82 ; *
G+: 253 283B2 328 5 39B2+2 ; 253 42 E 29A 3B25.8 42
G: 8 23 42 B:.=2B8 253B2GB 8 80 " ' <' : :
- ' (! ' 53B20 23 # #

3' * ' Q &/ Q 5*3B2*\ *B *8 /0 5'
' 2 . B2882B B . <B:?92 ; 253' 88:58*+28 8&25*
3B2*. B2882B0 .: ; ; 2 429A <2B8:5528 ?9 ' 8& +25'
G2 9.:9<0 ' < ' * ' 9 0' " "
' ' O I' (' &(' (1" / %' "@2O' "(("' " / % , !"&, !"
4" ! ' "%4!-((" ' " ! / -' " / %0! 4' * + " / * - ' ' 1
O -.' "! :' +"(+"(, ! - 4&! ((1" / %' "@2O' "((*8" / % "(@
%*8" / % &"(4&! (0(4 ' "(' (1" / %' "@#* / / " ' #"(2* ! 4- #7
&O / 2' " "% #" 4-(%*&&" ' ' EFF
- ' (! ' > ' 23 *
3' * ' Q &/ Q 5*3B2*\ *8 /0 / ' '
882B B . <B:?92 ; 253 95 ' 93B2' &253B2*. 882B
+28 42538 0 +28 :8
- # ' O I' 8' H +8I' = +23253 95 89B 93B20 23082
G 33 53 +28 :80 &253B2. 88253 +28 42538 ' ' $
- ' (! ' > ' *
, ' ! " , :8 , ' Q &/ Q 5*3B2*8 *4 " / ' ' 2
. 42B B 4<B:?92 ; 253 ?92+?92' .=:82 &E5' ' 93B2
' 42B 95 ' 93B2' 58 <:9E: B 82 <+ 2B <:9B
8&253B2*. 42B0 ' A '
- ' # ' O I' 8' &253B2.242B0 9
- ' (! ' > ' 23
3' * # ' Q &/ Q 5*3B2*.= B*@ /0 3U' '
2 .= BJ2B B . <B:?92 ; 253' 28 429A 3B:9<28 8&25*
3B2*.= BJ B253' LL & ..982B 95 93B2' 28 ..98 8
8&253B2*.= 8J2 253
- ' ' O I' (' 28 429A B ; 28 .: ; ; 25.2B253 '
8&253B2.= BJ2B0 ' 0 , 1 '
- ' (! ' > ' 23 *
' Q 5*3B2*.= I' +2 ' 52 82 + 2 < 8 4 58
+2 < B+2B :B4 5 B2' 9 <+9B 2+0 3 82 + 2 428 5*3B2*
.= *M J +28I' 253B2.= 38 B ; 2 E2.' < 80 ; 380 23. /0
' ' 2B ; 2 42 4 582' 93 + J2B0 4 58 +2?92+ +28
< 248 G 33253 B < 42 ; 253 95 .253B2 93B2' B20
G 33B20 < 882B 95 253B2.= 3' H +I' 3 . : ; ; 2 95 25K
3B2.= 3 E2.' 95 28. G2 90 B G9.= 53 '
# ' S' 2+9 ' ?9 ' 2B ' +2 ; 29A 95 253B2.= 3 82B '
+2 5 5. 2B +2 <+98 53 JB20 ' U ' " " ' 2
H952 4 582982I' ; 3 +2 8320 + ' 8<+254298' .: ; ; 2
2 2 4 8 30 + ' E 2 283 95 253B2.= 3I' <29 ; <:B32
?9&:5' B23: ; G20 <:9BE9 ?9&:5' 82 8: 3 +2E ' G 25 = 9+0
' 23 ' ' ' ' " '
' ' 2 ; :3 253B2.= 3 82 8:98*253254 8:9E253 4 58
2A<B288 :5 G 33B2 428 8 A0 428 = 9 30 2&283* *4 B2 428
253B2.= 38 4 ' 8 A Q: + +28 < 248 G 33253 3B: 8 : 8 95
.253B2 93B2/00 428 =9 3 Q: ' +8 G 33253 ?9 3B2
: 8/0 23.
- ' (! ' :BB9<3 :5 42 & 3 + 25 * ' Q4 58
.2332 +: .93 :5 " ' ** ' . GB :+2 253B2*
+ . 2/0 * ' 42 ' 250 23 * ' 3B2882
QE:R' .2 ; :3/
3' * # # ' Q &/ Q 5*3B2*.= B*.= /0 W'
' 2 .=2B.=2B ; 9392+ +2 ; 253
' O I' (' ' 8' 0%& ' 9,3% + ,3 ' , ! - ?&3+2& '
9=&29=&3+' ' ' 4
- ' $- ? ' > ' "% * *
3' * # $! ' Q 5*3B2*: =:*\2* ; 5/0 '
; ' =: .' 42 <+98 29B8 .: ; G 33 538
- ' ' O I' 8' 28 253B2.=:?92 ; 258 23 .=29328
: + :5 52 82 3 <: 53 42 ; +0 23 <9 8 ?9&:5 B28*
8 932 5.:53 5253 ' .=2E +0 .: ; ; 2 8' :5 283: 3 42*
E259 +2:< B40 ' ; ,
- ' (! ' > ' + ,
@ Q ' Q &/ DO/@%' "@26*@ [E' / '
6 2 .=:?92B 95 93B2' 5' .:9B 53 +8 82 8: :3 25*
3B2.=:?9 8' 2B: ; ' < :58 23 .=2E + 2B8 &253B2*: = :*
?92B .: ; ; 2 G + 2B80 ' 9 ' E ' 5 E 3 +28 .: *
=:B328 8&253B2*: = :?92B0 ' ' ' 7' 28 E J928
?9 ' 8&253B2*.G:?9253 4 58 952 32 ; < 32I' % ' 9 ' / '
& 3 3 95 JB 54 23 32BB G+2 8<2.3 .+2 ?92 42 E: B + '
; 2B .:9E2B32 42 3B: 8 .2538 J ' B28 <B 328 ' 8&253B2*
.=:?92B0 ' ' 3 ' BE ' < ' 0 4 58
' ' 2 .:53B24 B20 8& :<<.82B 95 ' 93B2'
28 429A =: ; ; 288&253B2*.=:?9253 8 58.2882' 29B8
=R< 3= 828 B J +28 H428 <= +:8:<=28I' 8&253B2*.=:*
?9253+ GB2 ; 253I' +29B8 ?92B2+28 52 <29E253 E: B 428
.:58 ?925.28 <:9B c3 30 ? ' > ' 0 6 '
.=' "0 4 58 ' > , / ' 3 ' E ' LL E2.' 2+K
+ <82 49 <B:5 : ; ' <2B8:552+' $92+ 25E 29A 4 ; :5 23
?92+ .= B ; 2 882M :B3 8 3 253B2*2=:?92B 429A
E:+:53 8 4& 2.:B4' ' ' # , / ' E0 F
- ! ' +G2B3 2 ; <+:R .3 E2 ; 253' 2G:9.=:5
8 932 25 BI' 2 E 5 GB +20 +2 E2BB2 253B2*.=:?92
+2 E2BB2' 2 3:98 +28 4:58 49 42 + +2 E 5 283 +2 <+98
.=2B0 ' 0 ' " ' ; B3 52 ' 2 ; <3:R 0
.3 E2 ; 253 988 0 9 8258 42 <:9882B 95 .53B2
93B2' H 28 < 88 :58I ' :9 + 53 42 25 2B 89B
.2 ; ++ :5 4& ; 28 H B 8I0 53B2*.=:?9253 253B2
29A .28 G: ; ; 28 23 .28 2 ; ; 280 ' E9 0
%" ' 28 29A .B: 8253 +28 29AI' +2 2B B <<2 +2 2BI'
28 B 5J8 253B2*.=:?9 8 + 5.253 95 829+ 4 B0 '
' A ' 0 , ' 28 2 ; <+: 8 52 < B 88253
< 8 42E: B 3B2 B2. : ; ; 54 8

-'# 'S 68' B .2332 B25.:53B2 4:2+ 428
2:53;2 42 429A . ++:9A ? '8253B2*.=:?9253 82A*
.32 95 2E ' '<'W8
-' (!'<- # '23 (&!=7 #
3' ' Q / Q 5*3BW*\+NB*8 B/ / ' '
2 4:552B 428 .+ B. 882;2538 B'. <B:?928' ' 93
95' .2B3 5' 5:;GB2 4 ' <2B8:5528 <:9B 2A< 4 2B
<B:;<32;253 +28 B28 23 8253B4.+ B. B +28 958
+28 93B28 ": "NF 28'
-' (!'> '23
' +'B53 ' ' Q 5*3B2*\+:*B' 5 ' +:B2 \'
42;' 53B2*.+:B2 +28 R29A
-' (!'> '23 *
3 ' Q 53BN*3+4 \+4*M / 6' '
42;' 44:8
-'# 'A '8'> ;2 95 G:93:5 E2B;2 + 253B 28*
.+:8 9 ; ' ' :5 +' B:82 49 8:B 5: 8 5 :
-' (! '53B2 23 4.3:8
3 ' Q 5*3B2*\:*+:*5 / :9' *
' Q 5*3B2*\:*+:*52*; 5/08'3: 2B;2
4 B.=32:39B2' 8< .2 .:;<B 8 :9 <B:@234'253B2 +28
A28 42 429A .:+:5528 .:584.93 E28' 28 253B2*.:*
+:552;2538 82 ;289B253 25';:49+28 23 B .3:58 42
;:49+2' B.=32.32 E +89<<B=54'+2 ;9B. B.9+ B2
?9 B2;< 3+28253B2 .:3:5528 6 '> 35 88:
-'# 'S 68' 53B2.:+:552 7
-' (!'<- # '23 (!!--
j' * # ' Q / Q 5*3B2*\:5*G *3B6/
3/'# ' 2 .:;G 33B2 95' 93B2
-'# 'S 68' $9 53 @2'3B:E '25 958 288 BM :B8
H3 9B2 9AI' 8 +E J28 :B8 H:9B8I' 23 + 2< BM $9' 8 5*
3B2.:;G X 253 39 3 ' ' / ' ,'
4 ' ' CC' 'A 96 8' 'E253 ?9' 8253B2.:;G 3253
8';2BE2 ++2982;253 ' 9 " '
-' D'(#' > '23 * 1
3' >#' * !! $ ' Q / Q 5*3B2*\:'9*5 *
6 9' W' # ' :;;95 ?92B B .<B:?92;253 95 \'
93B2 2 ; 29A82B\'42 52 <+98 B 25 8253B2*.:;*
;95 ?52B '= '11' 3' 2 ; 2882;253 42
5:98 253B2'2;; 5 ?92B 5:8 :+28 5U' 4432' '
' ++ 3 82 ;233B2 E2.' 8< J52 89B 95 <24' 4 8*
82M 42 .:5 5.2 <:9B 8253B2*.:;;95 ?92B 3:9328
.28 4 E2B828 3253 3 E28 8 *8 ! " C F
-'# 'S 68' 2.'82 <253 B <<:B32B 6' 283B: 32
2:9839B2 42 28<B 3 23 49 .:B<8 8253B2*.:;;95 *
?9 538 +29B8 :B39528 ' ' $ ' B +2 ;: 25'
49 3B ?92 95 <+8 42 \' 93B2 8253B2*.:;;96
5 . 58 +29B8 < B3 .9+ 2B28 .:;;:4# 8 ' ' :'
'F' '$9 53 9A 28328 23 8 .B .28 +M 82 +28
253B2.:;;95 ?92B253 23 5 25' :832B253 < 8 952 42
.2+28 ?92 95' 23 93B2 <29<+2 :G82BE: 3 :< B *
B 53 6 ' #:B5'
-' (!'<- # ' ' ! -=7 #
3' * ' Q / Q 5*3B2*\:5*+\'4/ 5'
' 2 .:5 2882B B .<B:?92;253
-'# 'S 6F' 2 <B2E:83 +29B E 53 4 B2 ?9 +8
8253B2*.:5 288 88253 23 ?9 +8 52 82B:253 < 8 + '+25*
42; 5 \'32+2 G29B2 25 E 2 ' ' ME
-' (!> '23 *
3' 6 ' Q / Q 5*3B2*\:*52*3B6/06'
' 2 .:55 33B2 ;9392+2;253' $9 54 + 93 4 B2
3:93 :5 8253B2*.:55 33 G 25 ' 'H '"7' '
3' 9 8?92 .28 ?9 B3 2B8 4:E253 N3B2 8+ 4:*
J5\8+95 42 93B2 ?92 +28 .329B8 253 +25 42 52
< 8 8253B2*8:55 +3B2 'C '<B -
-'# 'A 68' 53 <B:.=' ?9 + 8253B2*.:59*
B253 E 9 .A9A' E AE6 8'>2 E:R8 4:52 <2582B 49
4 852B*' B + 5:98 9+4B'.=:<< 52B 5 <25 <:9B
;29A 82;B2*.:5J5:83B2 < *' ' * ' <' NN'
S 68' '3:83 ?9 +M 82 29B253 253B2.:J529M +M
GB:2G2B253 +29B8 .=2E 9A 428 28<2B:58 95'.253B2
9332 +28 28< 28 9A <:5J8 E2.' JB 548 .B 8
9;'
-' (!' 53B2 23 *
3' * > ' Q / Q 5*3B2*\:5*8:*+4/ /'
'#'.:58:+2B B .<B:?92;253' 8 8253B2* :58:*
+253 < B 28< B 5.2 42 +'5:9E2 2 :9 42 + '<+2 52
+952 '(#, ' '*
-'# AE 68' :9 :9B8 95 B 8 3:9 :9B8 95 G:5 E
8 J2 :9 :9B88 28.B B2 23 8253B2*.:58:+2B 'MA2:
-' (!'A '23 *
* 'Q 5*3B2*\ * / ' 2B;2 42 G:9*
.=2B 2' :B.2 9 42 E 542 .:9< '253B2 429A 328
49 G:29 ' '&,'", ' 28 253B2*. 328
-' (!'> '23 *
3' * ('Q /'Q 5*3B2*\:9*4:* 4 <+9*
8 29B8 4 8253 5*3B2*\:9*4:* / / ' 2 .:94:R2'
95' 93B2
-'# 'S 68' 253B2.:94:R2B 7
-' (!'<- # '23 (!7"! #
3' * ' Q 5*3B2*\:9*< / ' ' 2B;2
4 B.G 32.39B2' 8< .2 :9 E 42 ?9' B2832 253B2 429A
E:G328 8<=4B ?928 42<9 8 2A3B 4:8 @98J9 \' +

4:92+2' 4J J2;253 ?92 429A < 58 .:9<48 :53
E 8**E 8 95 42 93B2 4 58 95'. BB2 :9B 43B: 3
:9 4 58 952 <:B32 .:.G\B2 5 ?92 +28 E: 39B28
R <9 88253 3:9B52B
-' (!'<- # (!7 #
' Q 5*3B2*\:9*<4 <42/ <:B3'
' 6 :9<4 25 4 E2B8 <: 538' ' B .2 253B2*
.:9<42 42 3:98 .4348 < B 428 ;2B8 42E 3 +29B B < B
+2 .:;;2B.2 K & ' ' -#!"' 2B;2
42 G:3 5 ?92' 882 9A 253B2.:9<48 .29A ?9'
.:;<:8253 +2 3 889 .2+9+ B2 ;:5+ :B;2' 6 B
2A3258 :5 532BB:;<9 8 .. 44' 4598 +9 'B4<:54 3
4 952 E: A 253B2.:9<42 42 <B: :548 8:9< B8
, ' S' +98 42 429B <+98 42 J + 532B 2 8:5 5*
J J2 43 3 B < 42 253B2.:9<4 <+2 5 42 89G83 5.2
23 42 .=+29B ' 1!-' !# 7B'+ '=7 ['
3B2[+:.:5A' G +G93 '?92+?928 ;:38 253B2.:9<48
' ?"' ',&!"'3' 5 +233' < '
4 58 4*
! ' Q 5*3B2*\:9*<2*; 5/
' .3 :5 4253B2.:9<2B B489+3 3 42 .2332 .3 :5
-'# AE 6 8' 9 8 49 + EB2 2559R4 @2' B2J B*
4: 8 +28 +29B8 ' 3 253B2.:9<2;253 42 +29B8 .28
4 E2B828 2 5328 42 .253 ?:58 @ 9528 B:9J28 23
<2B828 '
-' (!'<- # (!7 #
' Q 5*3B2*\:9*<4/ 5' ' 6 :9*
<2B 4 E 82B 25' <+98 29B8 254B:38' 28 . 5 9A 25*
3B2.:9< 253 +28 @ B4 58' 2B;2 42 .:939B2' :82B
+28 < 3B:58 89B 952 43: 2 42 ?:5 \'.2 ?92 +28
.:53:9B8 428 958 253B253 4 58 .2 ?9' 283 + 884' < B
+28 253 ++28 428 93B28 2283 93 + 82B 3:9328 +28
.:9<28 42 ?:5 ?9 + R 3 +2 ;: 58 443: 2 <2B492
<:88 G+2' ' ' B 2A3258 :5 532BB:;<B2 B'92;*
;253' 53B2.:9<2B 95 B4. 3 95' 4 8.:9B8 42 4K
JB288 :58 42 .3 3 :58' ;28 <B:+28 < ', '9'
3B2.:9< 253 3:9328 ;28 < B:+28 < ' ' 9'
' 6 253B2.:9<2B 5'# ' 2 2B2 \' 8:*;4;2
428 .:5<9B28' 2 4 3 428 4=2E 9A ?9' 82 G+2 88253
25 B:33 53 95 <24 .253B2 \53B2' 5 4 3 <+98 :B*
9 5 B2;253 82 .:9<2B' ' 3 B 3 + 428 + J528
?9' 82 .B:8253' 5 2A<B ; 53 < B 428 + J528 .28
;:9E2;2538 2325' 3 B 53 \'.28 + J528 428 < B ++2+28
?9' 8253B2.:9<253 G ' . (& #(&)-' 0*"'
' :9<2B B4. <B:?92;253 95 \' 93B2' 8 82 8253
253B2.:9<4' +'J:BJ2' '? :'G:5' 8253B2.:9<2B +'
J:BJ2U 7 'U' 1' + E' S .G' 4 58 6 '
>2 52 8 8 8' +'E92 42 .253 33 + +2 G:;28 ?9' 825K
3B2.:9<253 + ' J:BJ2 . 982 952 @: 2 G 25' <9B2
5' 8' .2332 @: 2 <253 89G8 832B E2.' +2 8253 ;253
4=9; 5 34 ?9'5:98 283 5\39B.+ ' K ' -('
<75#' 3' < 'N W 4 58 :2 "6 B 2AK
3258 :5 8 532BB:;<B2 95' 93B2' 589 32 8 '
E:98 <+ 3^ -' :98 5:98 253B2.:9<\;28 2 ; +2
?9283 :58 ?9' <:9E 253 5:98 3:92G2B ' ? &
5 ' ' E2.' 2+ <82 49 <B:5:;' <2B8:552+' 3 42
E:3B2 <2582B 2G 882M* +28 44<+ 8 B8 $9' :53 253B2K
.:9<2B E:3B2 E: A 42 8:9< B8 ' ' '
1&# '5
-' !' 5 52 E:3< 8<:33B?9:' . 44 ;2 ?9'
;23 95' 3 B23 ' -#) " #' E2BG2 .3 5 25' ;23
< 8 4J +2;253 95' \'253B2.:3'2B E2BG2 .3' 988
-'# 'S 68' 33 .G\53+2 <+98 G 93 <:53 4 G:5*
529B 428 .=2E + 2B8 \' 8 2<3B2.:9<2B +'J:BJ2 <:9B
.=:828 B E:+28 6 '# '$92+?928 958 8 33 *
.=253 \' +'. 425.2 428 <2B :428 52 E29+253 < 8
?9 2 28 253B2.:9<<253 = +2 5249 +2:329B <:9B283B2
3B:< .:9B328 'K '0# '9 ' 5'95'.:832 9 25*
3B2*.:9<<4 42G:8 3 8 ' ' + ++93+25*
3B2.:9'42 <23 328 3B E2B828 ?9'.:9EB:253.= .952
+2 . B52 9 23 +2 < 88 J2 42 93B2 ' '5 NF
-' (!'<- # '23 (!7 #
j' * 'Q 5*3B2*\:9B/ ' ' 6 2B;2
42 4B:3 .:939;2B' :.434 .:53B 2342 253B2 429A
82 J529B8 9 ;:R25' 42 + ?92+2 +28 89 238 42 95
<:9E;253 + GB2;253 +32B <B2_4B2 4:;.+2 4 58 +'
82 J529B 2 42 93B2' '2B;2 B9B +' 4. <B:.34'
42 <\39B J2 253B2 +28 = G 3 538 42 <+98 29B8 .:;K
; 9528 :38?92 + 'E 52 <_3 @B2 82A2B.2 < B +28 G *
G 3 53842 429A < B: 8 28 89B +2'32BB 3:B2 952 42
93 2 2#2 <B254' +2 5:;' 42 < B.:9B8 :9 4253B2*
2:9B8 'C '7#' ' # '"'1A5 '<' M
-'# 'S 68' B:3 42 G:9BJ2:8 2 8 .?9 2B3< B
42;29B2< B 5 23 @:9B :9 <\B E29 \8 + 29A :4 +
8 4B:3 42 < B.:9B8 23 253B2.:9B8 $ ' 1'
2832.:;;952 < 3 25.2 42 < 8 42 B2<:8 4 G:5*
4 5.2 42 ! 258 4253B2.:9B8 42 ; B2G 54 828
' ' (%
- (!' 53B2 23 .:9B8P4: + 5J+ 83532B.:9B82
?9'283 B2E259 25 B 5. 8 8:98 +' :B;2 5J+ 82
%' 1$- ' D 1E DO/@%'[@[*!@%[E' %' '
1[2*!%"'#2-4'*,!"+"/%'
-' 'O I' 8' 952< B3+2 W3' 93B2' ' k' 25

/!080/%' 4*-/%' 0' 40%-"/2"' 42 (1"/%'1"2*!%"' ' 5 42
(!-.'" 0' ."'-%[' (0/(' 0$$"2%-*/' [' *-&' " " ("'*-%
%'*/.["' 9' JaW
'$- ?'<- # ' "% (!7 #
3' * ' Q / Q 5*3B2*\:9*EB B/0k'B>[+'
2 .:9EB B B4. <B:?92;253
' O I' (' !((- ("'*/%' &"(' ;"';"(' 4*([" (' "/
'0/7["(' 2*/."/0;&"+"/%' "(-*-7/["(' &"(' ' #"('
0!%'"(' 0$-/' #!".-%"' 0' 2*/$!(-*/' , !"' &"' %'*4' #"'
4'"(("' 20!("'*-%' [' 1+!.'"' (1"/%'"2*!''0/(')'
NF
'$- ?'<- # ' "% (!75# #
3' * ' Q / Q 5*3B2*\B 5*4B /0W 'B2M*'
2 .B 54B2 B4. <B:?92;253
-'# ' !J8' +M 8253B2.B J5:253 B2. <B:?92*
;253 23 82 42 :253 95 42 93B2 ' O #N
#&7 '
'$- ?'<- # ' "% (# -"#
3' ' Q / Q 5*3B*\B *B/ 5'# ' .B B2
B4. <B:?92;253 ?92+?92 .=:82 95 \' 93B2' 8
8253B \.B E 253 428 +233B28 :B3 ; G+28
' O I' (' ."2'!/"'&"%%'"#"'(0 +0-/ 2*++"'
&"(' '*-(' 5H"/%'"(2'-."/%' /*/' 4*-/%' 4*!'" 0$$0-'"('
+0-(-:' 'M
-'$- ? ' 53B2 23 # #
* ' DO/@%'"@['*-@<['<#"E' #
' B:8\' B4. <B:?92;253' 28 +8 253B2*.B9 848
' * ! ' Q 5*3B2*\B: *M2*; 5/
' 3 3 42 .=:828 ?9' 8253B2*.B: 8253' 2B;2 4 *
5 3:;2' 88 J2 B\2 <B:?92 428 GB28 25' J\5\B +
428 39G28 52BE29A 25' < B3 .9+ 2B 4 95'.N3\' 49 <+ 5
;44 5 49 .:B<8 \' 93B2' 253B2*.B:82;253 428
52B+G :<3 ?928
V ':.-I(' "%"'*-"4"/#0/%' /"'(*!$$'" 1"/@
%'"@2'*-("+"/%' #"(' 0&"(' 40" 0/7&"(' #'*-%(' 2*++0
['.*&*/%['2"&0'(" $0-%' "/' 4&0/!"' ' ' ')
-' (!'<- #)#! #
* 'Q 5*3 2*\B: *M4n0W' ' I' 6 B: *
82B B4. <B:?92;253' '3B2*.B: 82B 4 Y' +8' L 6 2 U*
3B2*.B: 82B '# ' 2 .B: 82B 95 93B2' 28 + J528
?9' 8253B2*.B: 8293' 2 ?9' 3 ?92 .28 B R:58 825*
3B2*.B: 8253 ' ! #'C
-'# S 68' 28 :8848 8253B2*.B: 8 58 95
93B2 8 58 < B .2 ;: 25 '428 JB 548 ?9 B\8
9 .= ;< 0' ' , :
0*B' (!'<- # '23 (#! #
' ! * ' Q 5*3B2*\9 *8 / 8' ;' 293B2*
429A 428 .9 8828' 9 <+9B' 428 253B2*.9 8828
-' 'O I' 8' <B48 E: B 28<+9;\' +'32832 23 +28
253B2*.9 8828 428 2G <:58 23 428 <:9+28 :5 +28 ;23
25;92 ?'
-' !'<- # '23 7
!", : 6 ' Q / Q 5*3B2*44*.= *B4/0k'#
' ' :4\.= B2B 95 93B2' 6 B 2A3258 :5 82
G 33B2' 28 5R;<=28 @ +:9828 8253 <B\328 \' 8253B2*
4\2= B2B / ', 'E5' ' 9B25B 428 GB J 548 \'
8253 2*4\2G B2B 882 9A E2B398 49 $+ 58+2 32;<8
42 B28< B2B '1& # ', 'A'F' F' J'
!44 B:'E :+2 ;;253 95 42 93B2
-'# S 68' 253B242:G B2B '
'$- ?'<- # ' "% " (& # #
3' 3 * ' Q / Q 5*3B:*44*\+ *B4/ E'
' 4.+ B2B B4. <B:?92;253 ?92+?92 .=:82 95
\' 93B2' ' B 5.2 23 2;<2B29B E25 253 42 8253B2*
4\.+ B2B+ 'J92BB2 ' '1!- 'E
-' (!'<- # '23 " # #
3' * ' Q / Q 5*3B2*44*\:9*B *
@4/ W'# ' 2 44.:9B J2B B4. <B:?92;253
-, + B' O I' 8' 28 8+: 8 ; + 428 49 B2JB23 42
!3B ;G2 9 <B25:253 8' JB2;253 +28 :.. 8 :58 42
8253B2*42.:9B\J2B ?9 9 <B A ?9 :5 @ 3: 3 428
G:;3528 \' G:B4 + 25 8:B3: 3 93 53 <:9B E25 B \' +'
:.=2+2 " ' K ' ::
'$- ?'<- # ' "% " (!7# / #
3' !", : ' Q / Q 5*3B2*44* 4*B /0' W'# '
2 44 B2 95' 93B2
* ' (!'<- # '23 " #
3' !", : ' Q / Q 5*3B2*44* 5*4B / 2'
' 2 44 254B2 B4. <B:?92;253
-'# -I'(' 1"/%'"#"$$"/#'" ' 9
' ' (!'<- # '23 " -"#
3' !", : 6 ' Q / Q 5*3B2*42*; 5*4\/
k'# ' 2 42; 542B B4. <B:?92;253 ?92+?92 .=:82
95'\' 93B2' 8 8 2;B2*42; 544B253 4285:9E2+28
-'! 'O I' 8' $9 54 ;28 429A .:B4:9 55 2B8 ("
3B:9E23253 \' =:32+2B 2 E2.' .G .95 952 G:332 \'
+'; 5 8 8253B242; 542B253 <:9B ?9' 283: 3 +'
G:332' '1!-' AAE' 3 8253B2*42; 54253
?9' E2 ?9'E' \ +2 ; B28.= + 82 5:;; 2 +2 <B2V
; 2B AE; C
-' (!'<- # '23 " -"#
3' * ' Q / Q 5*3;*4*<:*84*4\/
W'# ' 2 4\<:88\428 B\:<B:?92;253' 2F G:;;28

' b '

("' $-'"/% &0 7!"''" &"(! /(0! :' 0!%'"(4*!" (1"/%'"0 _' ' ' '<- # ' 23' " 5!# #
#-4*((-#"' #" &"!'(;-"/(' ' (7# 3' * ! ' Q &/ Q 5*3B2*4 3 + B ; "/0 b '
' '<- # ' 23' " ! " # # ' 2' 4 ; 2B' &95' & 93B2
3 ! * ' Q &/ Q 5*3B2*4 "*B:*G"/0' - '# ' S 6 8' &253B24 ; 2B0
8 ' 2' 4 B:G2B' ?92+?92' .=:82' B2. <B:?92 ; 253' - ' (! ' <- # ' 23' " #
&9:' =' & 93B2 + * ' Q &/ Q 5*3B2*4 *B&/0 . ' B ' & ' B2
'M ?' <- # ' "%' "J ! # B2. <B:?92 ; 253' ?92+?92' .=:82' &95' & 93B2' +8 &25*
* B ' Q &/ Q 5*3B2*4 4*3B9 *B&/0' 'B'[+ 3B2*4 B253' +29B8' E4B 348' &253B23 25' 42' <=5 8' 9'
' 6' 2' 443B9 B2' &95' & 93B2' 3' ?92' 8:5' ; 3 40' 82' 3B: 8 4 ; 2' .32' E2.' .23' ; 53' 444 J54' ' 952' 2.K
+ 88 53' ; : 58' 8449 B20' 2' 5:98' 2A<:843' <: 53' 6' 3 3 :5' 882M 4 5J2B2982' 4252' 4 B2?92' .= .95' 95'
5:98' 253B2*443B9 B20' ' 0 7 (& # ' 0' 2' 28' K E2B8' '+ ' : 8# .2+ '8:B3' 3:93' ' 3' 49' EB 82 ; G+ G+20'
; + 28' 8&253B2*443B9 8 B2530' 6 6 <' #:B5' .=' ' <9 8?92' 5 39B2+2 ; 253' :5' 52' <253' 43B2' 8' ; 289B225'
' 6' B2A32:8 :50' 43B225:<<:8 3 :50' 25' .:53B 4 .K :2' ?9& :5' 8&25+B2*4 30' ' @7 5' <B - ' 28' 2 ; K
3 :5' 92+ 283' +2' G93' ?92' ' <B:<:82M 4 58' ; 28' &253B2*4 8 253' 25' +29B8' ; 2598' 42E 8 '
' 4.B 38' 283*.2' 42' < B+2B' E2.' 8 5.4B 34' 5:50' ' B:?' 28' B: 8' 428 25E B:580' + B ; 480' 8&253B2*
; 28' <4B280' <9 8?92' E:8' B4<:5828' 8&253 2*443B9 82530' 4 8253' .: ; ; 2' 93B2 : 8' +28' B: 8' 42' = 5 5' 2'
' 0#!5' %' 53' 42' ; :9E2 ; 2538' :<<:848' ?9' <29<+2' E 44E:B2B' 3:98+28' <29<+28' 4& +253:9B0'
8&253B2*443B9 82530' I ' A' ' 1! - # ' *' +90' N # ' 7 - ' 7 & -
'# $ ' <- # ' "%' " " #7 # V ' # 0 ME 6' 8' +8' 8&253B24 B253' .= .95' 952' .25*
* S' Q 5*3B2*424?' &8' 82' + 2 ' 95' 5*3B2* 3 528' 42' G:5528' 23' :B328' 5@9B28' 4& BB .=2*< 240'
42 *M 23 /0' $' ; 'NN d B3 2' :9' <+ .2' ?9' :B ; 2' ' 1 ! -
84< B 3 :5' 253B2' 429A' .=:828' N32B' &253B2*429A' ?9' ' ' <- # ' 23' 43B20
84< B2' 429A' .= ; GB28' &253B2*429A' 428' 2< 9+28' * ! ' Q &/ Q 5*3B2*4:*54/0W '# ' G:5*
:98' + ' 8253 B2M .= 942' 4 58' +28' 253B2*429A' 42' E:8 52B' B2. <B:?92 ; 253' ?92+?92' .=:82' &95' ' & 93B2'
#*-7%(' ' 6 ! # ' 3' 4*!" .*("/#*((!'"(+28' 82' 8:53' 253B2*4:554' ?92+?928' <23 38' :G@238' 28'
882M +28' 253B2*429A0' 82BE2M*E:98*42' ; 2 ; GB9B280' :G@238' ?9&2+28' 82' 8:53' 253B2*4:55_ ' 29A' :9' 3B: 8'
' . 7# ' <' N%' LL ' J ' B.2332GB4.=20' .2538' 8:+4 388&253B2*4:55253' .:9B J20' 6 *, ' 6 ! # '
+8' B: ; <253' &253B2*4 9S' ?9' +2' 84< B2' 49' <29<+20' "> ? "#' 0' ' 3.28' R29A' +28' :53' E98' 8&293B2*4:552B'
I ' N6' " (' B9B' + .:9B' 5' 52' ; :53B2' < 88 'JB 5K < B:+20' ' ' ; 0' ! ' :98' 429A' 8&43 253'
429B' <:9B' 43B2' '952' 2A3B4 ; 340' ; 8G 25' 253:9.= 53' 253B2*4:554' + ' : 0' ' ' H / '+L G8:+9 ; 2530' 2'
+28' 429A' ' + ' : 80' 23' B2 ; <+ 88 53' 3:93' &253B2*429A0' B <<2B' &95' & 93B2' 28' 429A' 4<:BE 2B8' 8&25 B2*4:5*
' 0 - ' 0' < ' AR' 44 3' =9B2' ' R' ' 428' 5 253' 49' G220' 7 ' ' ' + E ' 9 0' 4 58' ,
; 982 ; 2538' 42' < 88 :5' :9' 42' E 5 34' ?9' 4 88 <253' 23' ' 6 ' S 6 8' H +8I' 2' E:53' 2B B0' JB 5M .:<8'
?9' ; 232253' ?92+?92' 253B2*429A' 253B2' 29' 23' 5:980' &253B2*4952B2530' 1 & " ' . ! ' ' LLA 36 8' 5*
' + # ' GY ' 28' .:584?925.28' 8' H4 58' 95' 8 5.'+:B.92B8' H+29B8.:29B8@2582$ G 2@: J52530' 25'
+EB2' 42' 2X3:5I' 5 88253' B < 42 ; 253428<B 5. <280' 8&253B ; 2530' G 25' 8&253B2*4: J52930' V3 . ! ' "N "'
23' :5' 283' :G+ J4' 42' 89<<+428' 42' 8: * ; 4 ; 2' 3:93' 25*' ' S 6 8' B' 2BE258' ; 288 J28' 428' R29A0' 38' 8& ; 3B2*
3B2*429A0' ' ' Q ! - ' + ' ++ 3' :B ; 28' 95' B 5J' 4:552B2538' J528' 42' +29B8' ; 9392+28' E:+:5348' - :'
0' 532B ; 44 B2' H<:9B' +28' <B 5.28' 4J 3 ; 48> ?9' 52' . , ' 1! - ' AE
M G+28843' < 8' +28' <B 5.28' 49' 8 5J' 23' ?9 ' +28' 25J J243' - ' (! ' 53B20' 23' 44552B
0' ' +28' ; 5325 B' 4 58' 3:98' +28' 32 ; <80' < B' & 534B4342' ! " ' Q 5*3B42/0' ' Q L36' .3 :5 Q 25 B2 ' 025*
82' .:582BE2B' 95' 253B2*429A' 253B2' 29A' 23' +28' < B80' 3B42' 428' @9J28' 9' 3B G95' +' 2' 8:5' 253B42' B'
@(-! ' ' YR' # ; 2' + ' 49.=2882' 4& B+4 5852' <:9* 95' 5:9E2' 9 . B5 J2' + R' 3' 8:5' 293B42' H4 58 ; : 210'
E 3' 8:9 B B' ?92' 828' 25 538' 52' 988253' ?92' <B 5.28' ' C ' 0' ' ! :5' 253B42' 25' .28 + 29A' 52' 32'
49' 8 5J0' 23' E:9+ 3' ; J 528' 95' 253B2*429A0' E2.' 89B<B254B' ' <+980' * ' 6 ' w' "' ' 93' 33254B20'
955 : ; ' 4& BB 4B2*' 3 3* +8' 42' B 5.20' " ' <:9B' B2' +2' .: ; <+ ; 253' 4&253B420' ?92' +28' <23 38'
LL F ' 53B2*429A0' ! ' " ! ' A<B ; 2' 95' 32B ; 2' :9' 95' .= 258' 253' G:R40' ' ; ' > ' < B 53' 428'
42JB4' ; :R25' 2' ; :93:5' 283* + 49B^ - 53B2*429A' 4.+ < 280' +&253B4242+ +9524 58+& ; GB2023:' LL ' 4*
3* + B: 4 *' 53B2*429A' 5' E: 3' 428' ?92B2+28' 25K B4 ; :5 2' 8:+2G52+2' E2.' ?92+2' 55' <2B8:55 J2'
3B2' +2' 42BJ4' 23' + ' 5:G+28820' 23' +28' B: 8' 253B2*429A0' .:58 44B G+2 253B2' :9' 283' B2?9' 4 58' 952 E +2' 3' 5:98
$' < # ' AAA 0' ' "6' 8< .2' 42' .:58:+2' 2 ; G+2' ?92' E:98' R2M 93' E:3B2' 253B42' A0' 8 '
?9&:5' <+ .2' 253B2' 429A' 2543B280' @LN6' 23 32' G 542' 38' E 253 3 .' 952 ; 5 4B2' 4&253B42' ; :5' +80'
42' 42532+2' :9' 42' ; :9882+ 52' :9' <2B. +2' GB:4420' ' %C 5' +34' 3 52' 253B42 ; J5 ?52' 4858+' E +2
82BE 53' ' : ; 2B' +28' 4 E2B8' :G@238' 42' + ' 3: +2332' 428' . < 3 +20' - ' ' "N' ' 2 <B 5.2 H +2A 5K
2 ; ; 28448 J548' 8:98+2' 5: ; 42+ 5J2B 20' + 4]' 2B ; 2' 4B2I' 3' 8:5' 253B42' 4 ; 8' GR+:520' E2.' 952.+ 3' ?9'
42' GB ?92' 54B: 3 : + +28' :B.28' 5&:53' < 8' 3:549' 89B< 88 33:93 .2' ?92' &95 E2B8' E 3@ ; 8E90' :88'
+2' 4B < 4& 882M <B48' LL C' 2B ; 2' 42' ; B 52' 53B2* ' ; 0' %' H +8I' :53' <B438' ' E:98 .:549 B2' ' + '
429A' 428' 8 G:B480' 28< .2' <+2 5' 42' + ' ; 9B +2' 5* <:B32' 8 2B42' &:4' +28' 5:9E2 9A' 89+3 58' :53 +29B
34B 29B2?9 ' 283' 253B2' +28' 429A' 8 G:B48' LL 53B2*429A' <B2 + 4B2 253B420' ' @ S' $0' ' LL 53B42 82' 4 3
428' + ; 280' 28< .2' E 42' ?92' + 88253' 253B2' 2+28' +28' 988' 4&95 E 5?929B ?9' 283' B2?9' 4 58' 952 E +2
+ ; 28' 4+2E428' < B' 952' JB:882' ; 2B' LL :8:+9 ; 253' ' 8:9 ; 82' &253B42' 4 ' & B ; 42 4 58 + ' . <3 +2 2552*
4 83 5.2' 253B2' +2' JB 54' ; 3' 23' +2' ; 3' 42' ; 8 52' ; 2' ' > :R2982' 253B420' 5 9J9B 3 :5' 4 8 5. 258 8:9*
F6' 2B ; 2' 42' <4.=2' 53B2*429A' 4& 952' ; :B920' + ' E2B 58' 42 + ' + :4B2' Q F6 2B ; 2' 42' 3=443B2' .3 :5'
< B3 2' 253B2' + ' 3 32' 23' + ' ?9292 4&253B2B 2582452' ; : ; 253' 4&R' 253B2B' 23 .329B '
- ' # 0' A 96' 8' 5J J5298' 283' H + 283' B9841 0' ; 28' ; 5?94' 8:5' 253B42' &952 2 ; G+ 3 B2+&253B42
5&283' < 8' :B30' 2' 825JB 5' + ' 3 2 :B30' 2' 253B2* 25' ?92+?92' 3B4J44 20') ' # ' <- ' NN d' 53B42' 42
4298' 82' 823' .:EB B0' 3' G 25' 3 < B ' . - ' RRY' G +230' :90' 8 ; <+2 ; 2530' 253B420' 824 8 3 93B2 : 8428
S 68' H ' .= BI' B 2 ; <+ 3' +28' .:5. E 348' 23' +28' 25* 532B ; 4428' 4&95' G +23' 582B' 952' 253B42' 254 53'
3B24298' 428' 93B28' ; 2 ; GB280' ' 6 ' 6" ' + ' B4<43 :5 42 .2 G +230' +2 .: ; 32' 42' 9 .=2 43 3
S 68' 38' 5:98' 8: ; ; 28' ' & GG R20' + ' E +2' 283' 3B48*8:9E253' E2.' ! 4 ; 80' < B.2' ?9& + 4 5 3' 4 58
5:83B2?' . B' + 5&R' '<: 53' 4&253B2' 429A' 253B2' + ' E +2' + ' ; 4 ; 2' 253B420' BB' ' A '
23' & GG R20' ' ' " C' LL AE 6' 8' = ' ; 2B' ' 1& ' C > F ' 3' ; 0' < ' 0' 4 58' '
@: 5.3' 428' 32BB28' ?9' 283:R253' 4 E 84280' . : ; G+ :3 42' ' J' B2' 952' 253B42' 42 G +23' 4 58' 952 . : ; < *
8 G+2' +28' :8828' 4&253B2*429A0' ' 0' "' 2' 8:+2 + J5 20' R' 253B2B' 8 58' J B42B +28' .:5E25 5.28' 23' B2'
5:98' 4 5.2' 8' 4B9' 828' B R:580' ?92' 5:98' 5&25' <:9* +28' . E + 348' 542288' B28' LL + a2 4 8 3' 988' 428' .328'
E:58' <<2B.2E: B' &253B2*429A0' ' ' A ' ! ' & 4* 4&95' :<4B *G +230' +:B3?92' .= ?92' .32 43' 395' 89@23'
; B + E:9+93' +9 * ; 28 ; 28' E25' B' @98?928' ?' + ' BK 443 .=2' B2 ; 4B2 253B42' 2.:542 253B42' LL 9*
E 2B2' 253B2429A' 3:9328 : 80' 0' 88' >+42< B3 3' @:9B4&G9 0' 4 E2B3 882 ; 253 2A4.93' < B' 95' .2B3 5
828' J258' < B' <23 328' 3B:9<280' 23' +29B' 25@: J5 3' ?90 +8' 5: ; GB2' 42' 4 5829B80' 4 58' 95' G +230' 4 58' 95' :<4B '
82' @233 88253' = G +2 ; 253' 28' 253B2429A' ' 0 ' 52' 253B42 42 < R8 5528' LL 2B ; 2 42' ; 98 ?92' 2'
P ' ' 28' 8:94 B4' 82' ; 93 52B2530' 42' 8:B32' 4 3' 49' ; : ; 253' : ' .= ?92 < B3 2' . : ; ; 25.2' 82'
?9& +8' 9B253' 253B2429A' 42' +28' 392B' 89B' +2' .= ; <0' B8' 253254B2' &253B42' 428' .:B8' LL 3:9 ; 2+2'
; 8 ' ; '@ ' ?9 0' 4 58' 95' ; 4+:4B ; 20' 5=:5:2' &253B42' 25' 82452'
- ' (! ' <- # ' 23' " 7B3' < . B40' - #" 7B 4&9 ' <2B8:55 J2' LLN6' B: 3' 4&253B2B 8 58' < R2B' 4 58'
* ' Q &/ Q85*3B4*42*E: B/0' W ' # 95' 8<2.3 +2' 23' 9329B' ' 8:5' 253B42' :9' 828' 253B 28'
2E: B' B4. <B:?92 ; 253' ?92+?92' .=:82' &95' ' & 93B2' ' + ' ; 44 2* B 5? 82' >2 ; & E 8 ' 42 <B48 532B ; '
& 4 ; B G+2' B25.:53B2' ' ; :5' ; 2' B E 20' 2' E: B' ?92' <23 32 .: ; 44 2 42' ! B. 882 9A' 3 258' 2+2 R' 93' B2*
429A ; 5388&253B2*4: E253+ E 20' ' 33' ; 0' ?920' 23@&298 28' 253B4280' ?9' ; 2' B253 JB 54' <+ 8 B0
- ' (! ' - # ' 23' " 5! #' ' E5' 2 3=443B2 4:53@2' ; 2' 89 8
* ' Q &/ Q 5*3B2*44*E:*B4/0' 5 #" Q= 3 5:B5 ; 2B ; 442. 5' =:5:B B2' <:9B' E: B' ; 28' 25*
2' 44B:B2B' ; 392+2 ; 253' + ' +:9<8' 8&253B2*44E:B253 3B 280' - ' > :.2 ' " ' A ' NN Md' B: 3
- ' # ' S(68' &253B2*42E:32B0' ' M%E 42' 94J2B' 2' J:9E2B529B' 42' B 8' E + 253B22
9' < B+2 ; 253* &4" ' 253 B42' 9' .:582 + 4& 3 3

'T ' .248' 4 58' 95' + 29' ' :552' 25 B42' K + . 42' 23'
8:9 B2?92 0' (! , C ! " - ' C # ; +3:5R E 3' +28'
253B428' GB28' K 3:9328' =29B280' / ' H#
F ' ' E . : ; 32882' 05& ' +28' 253B228' . ' ?92' < B.2' ?92'
9 ' 89<<:82M ?9&2+2' ; 2' 25. :B2' ; :5' 92E29'
3' 6 0' , & C ' " " 7 ' , - "# ' ' 8.' F '
' 5. 25' 32B ; 2' 42' + ' :9B3' B E +4J2' 33 .G4' K .2BK
3 58' B 5J8' 23' ' .2B3 528' .= BJ280' 4&253B2B' ' 28B*
3 528' G29B28' 4 58' + ' .= ; GB2' 49' B: ' 2332' .= BJ2'
4:552' 3:9328' +28' 253B428' 5' +9 ' ' 4:554' +28' ; 4 ; 28'
253B428' ?9& ' + ' 4 ; 2' 4&=:5529B0' 8 E' 7 ' +2' '
<B432549' E: B' +28' 253B428' 42' 4 ; 2' 4&G:5529B0' '
7F ' ' 28' JB 5428' 253B4280' 82' 4 8 3' 428' 253B428' ?9& *
E 253' +28' J253' +8=: ; ; 28' 42' + ' .= ; GB2' <B48' +2'
. : 9.=2B0' +2' B: ' <<2+ ' ! ' 42' + ' B4 ; :9 +20' 23' ; '
*4 3' 42' 4:552B' :B4B2' 9A' =9 88 2B8' 42' + 882B' 253B2B'
! ' +2' 492' 49' ! 52' . : ; ; 2' +28' J253' +8=: ; ; 28' 42' + '
.= ; GB2' 2&283' .:' ?9&:5' <<2+2' E: B' 2' JB 5428'
253B4280' " " ! 7#- ' ' " %0') ' :43' "NF" '
3980' <B 5 4' 4:B4' 42' 3:93' .2' ?9' E 3' +28' JB 5428'
253B428' 23? ; G 3 3' 4 58' +28' . BB:88280' 4 ' '
' ' 28' <23 328' 253B4280' 82' 4 8 3' 428' 253B428'
?92' 4:55 253' +28' 93B28' .= BJ28' :9 8' S 'R' E 3'
828' <23 38' .:92G2B80* 828' JB 54280' 828' <23 328' 25K
3B4280' ' + ! 7 ' ') ' ' B' ; 43:5R ; 2' 2+9 '
:9' .2+2' ?9' ' 828' 253B428' 2' ' +2 2++ 2B0' ! ; 2' 42'
! 5325:50' 23' 952' 4:9M 52' 4&253B428' ; +3B28' :9'
E +2380' R' B2?9B253' :9R' 89 E B253' 2' 8 53' 8 .B2 ; 253'
UK + ' ; B3' 49' B: I0' ! ' ' %0' " ' 2' ; 4 ; 2' H82 *
J549B' ?9' E 3' +28' 253B4280' +9 ' 4:55 3' H 9' B: I' 8 '
B:G2' 42' .= ; GB20' 23' .2<254 53' +28' 82.:5428' 253B428'
:9' GB2E238' 4& B28' 253B 2530' " ; Q ' E' bFZ 4K
; 88 :5' 2<9 8' 8:5' 253B42' 9' . : ++4J20' .23' 4+4E2 '
3' G2 9.:9<' 42' <B:JB48' &253B42' 9' 84 ; 5 B2'
&2A ; 25' 4&253B42' K 952' 4.: 2' 5' ' 4 3' ?92' + 3:5'
B2 98 3' &253B42' 42' 8:5' 4.:+2' ' ?9 .:5?92' 5&43' 3'
< 8' J4: ; 43B20' ' ! / ' & ' " ' 6 ! # '
5' <253' +9 ' B2<B:.=2B' H 9' <B48 4253' :82I' .2<25K
4 53' 4& E: B0' < B' ; 3 4' <:9B' 28<B4 9A' 23' . 520'
B23 B44' &253B42' 42' :53252+2' K & . 44 ; 2' B 5*
? 20' 6 ' 6 ! / ' . ! ' LL 2' ?9&:5' < R 3' 25'
253B 53' 25' .= BJ2? G 25E2592' L+ F ' 54B: 3' < B' :4'
:5' 253B20' &:5' <4543B2' &253B42' 42' + ' 8:5' S'
&2$3B42' 42' + ' E +2' &253B42' 283' 42' .2' .434' &253B42'
4&95' <:B30' 4&952' B 42' LL 2B ; 2' 4& B.= 32.39B2' +5*
3B42' 42' .=:29B0' 44.:B 3 :50' ? 42' ?9' 84< B2' +2'
.=.29B' 4&952' 4J+ 82' 49' B2832' 42' + ' 52 ' Q 28' G:B48'
' 8& B ; 2' 42' 3:9321' B429B' 42' 8:5' M4+20' 23' 44 254'
E2.' 952' E J + 5.2' 5. :R G+2+28' 253B428' 42' 8:5' 4 :*
.4820' % ' 0 - / ' 0' < ' %' ' + 88 ' > .?92+ 52'
E2.' 828' 25 538' K 253B42' 49' G: 80' 6aB ' 7 , '
- ' " 7' (&" ' 3' 90' < ' "NC0' 4 58' " ' LL ' 9*
E2B39B2' 42' .2B3 528' .=:828' &253B42' 42' .2 .= <2 90'
42' .2332' .= 9889B20' 42' .2332' ; 5.=2' 283' 3B:< 43B: 32'
' 9E:B39B2' < B' + ?92+2' :52' .+2 ' 253B2' 4 58' + ' 82B*
B9B2' LL ' J ' + 82' 4 3' 42' 3:93' .2' ?9' 283' . : ; < B4' K
952' .3 :5' 4&25+B2B0' K 95' .=2 ; 52 ; 253' H 28' 3B 38'
42' + ' ; :B3I ' 2' :53' E: B' +29B' .+ B3 ' $92' + ' 5' 4&95'
3B 832' 284+ E J2' 3' 253B42' K + ' + G2B340' '
' ' 2' 82B 3' +29B' 2B ; 2B' 253B42' 42' 5:3B2' B2+ K
J :50' ' 0#!5' "F ' 29' ' E:9+9' 82' 82BE B' 42' 25*
3B2 ; 82' 428' 8258' <:9B' 4:552B' 253B42' ' + ' : 0' '
' 2' 2++ 2B0' ' ?9' + ' 4 E 52' B:E 425.2' 8 3'
B2' .2' +2J2B' <<B2?3 88 J2' 428' B28' 4& 3 3? +
52' ++ 3' ?9&25' :9EB B' 253B42' K 95' J45 2' a' <2B? 530'
<:9B' 53B:49 B2' G 25' E 53' 4 58' +28' 82.B238' 42' + '
<:+3 ?920' ' , #' 28' 44' : 380' +28' 4 ' 38'
52' <29E253' R' E: B' 9.952' 253B42' H 9A' = ; <8' +R*
84281 0') ' , ' A A ' :+:5' 4:55 ' 253B42' 4 58' +28'
B28' <9G+ ?928' K 3:93' +2' <29<+20' ; ' @ ! ! - ' >2'
3B:4E ' 952' <23 32' 3B . 882B 2' 4 ; 283' ?92' ?92' @2' 52'
444 J52B ' < 8' 42' ; 233B2' . 0' . : ; ; 2' 253B42' K 428'
.=:828' <+98' .:58 44B G+280' ! ' %" 0' ' LL &25K
3B42' 4 58' +2' ; :5420' + ' 5 88 5.2' 5' + ' . : ; <32' H+ '
E 2' 42' =:B5 ; 2I' 42<9 8' + ' <B2 ; 4B2' 2:3B42' 4 58' 32'
; :542? <:9B' ; : 0' @2' 52' E:94B 8' + ' . : ; <32B' ?92'
42<9 8' + ' 5 88 5.2' 42' + ' B 8:50' ' ? ! 7#'
' &253B42' 4 58' +2' ! - " ' 82' 4 3' 988' 428' <2B8:5528'
?9' . : ; ; 25.253' K B4?92532B' + ' 8:. 4 4' >2' 5& ' @ K
; 8' E9' 952' 8' 8:9= 3 G+2' 253B42' 4 58' >2' ; :5420'
8 E' "FN ' K " . . 8 :50' 2<<:B395 34' 2332' 55:E K
3 :5' 4:552B 3' 253B42' ' G2 9.:9<' 42' 448:B4B28'
; 528' 253B42' K 95' G98' 28' 253B428' ?9&2+2' 5:98'
:9EB2' <:9B' B2' 428' ; 80' ' ' :55' LL " +
82' 4 3' 49' <B2 ; 28' 32 ; <80' 428' <B2 ; 2B8' ; : ; 2538'
42' ?92+?92' .=:82' ?9' 49B2' &253B42' 49' ; : 8'
S' 253B4W 42' = E2B' &253B42' 42' 8:5' <:53 . 3'
>2' B2E 58' 882B432 ; 253' .=2M ; : ' K 253B42' 42' + '
59 30' 0' ' &! A ' .=' ' LL 28' 25K
3B42' 42' 3 ' +2 0' 448' +2' : : ; ; 25.2 ; 253' 49' B2< 8'
! " 4G3330' . : ; ; 25.2 ; 253' R2M' 5 ' ?9'
3 53' 4?B 3? + ' ; 8' 253B42' 42' 828' + EB28' + ' + 832'
428' 9329B8' ? & +B <<:B320' 9 ' 0#!5' %' $92' 448

[illegible]

[illegible]

[illegible]

3' B5 * ' Q &/ Q 5*3B2*JB *3 /0 W ' # '
J2' JB 332B' &95' & 93B20 23' J ' 82' + 332B' &95' & 93B2 '
:R2M' . ; ; 2' 2+28' 8&253B2*JB 332530 6 '
D ! 7# / " '=7 A ' 50' 3
- ' ' : / I' B' &253B2JB 332B0 9
' ' < - # ' 23' / # #
3' * 0 ' Q 5*3B2*JBN* 0 9 ' " ; '
2B ; 2' 42' G:3 5 ?92' 2' 4 3' 4&:BJ 528' ?9 0 4& G: 4'
4 83 5.380 82' 8:538:9448' 23' . : 5 : 54980 42' ; 5 B2'
_' 52' :B ; 2B' ?9&952' 8233+2' ; 882' B9 38' 253B2*JB2 ' 8
' * ' Q &/ Q 5*3B2*JB ! "/0 5 ' # '
B2' JB2 +328' +28' 958' 89B' +28 93B28' 28' BGB28' 8&25*
3B2*JB2 253
- ' (! ' < - # ' 23' / # #
3' * ' Q &/ Q 5*3B2*JB:9*4 ' /0W ' # '
2' JB:542B' &99' & 93B2
' ' O I' (' 1" / %' "7' * / # " ' ' 9
- ' ? ' < - # ' "% / # ! - " #
3' * (' Q &/ Q 5*3B2*J="*BB:* 4' P'
<+98 29 ' 4 8253' 5*3B2*J= 3*B: * 4/0 5 ' #* ' B2' + '
J92BB2' B 2. <B:?92 ; 253' &95' .253B2' & 93B2' +8' 82'
8:53' 253B2*J92BB:R ' + : 5J32 ; <8
- ' # 0 A ; 6' 8' 3' 82' 5:98' 5:98' 253B2J92BB :58 '
' ' ' AE ' LS 68' 29' ?9N +29B8' ; 83B28'
8&253B2*J92BB: 253' 3 3:932' :93B 5.2' 42E2B8' + ' B:5*
3 2B2' 42' +25. 255280 ' E 0 3
- ' ? ' < - # ' "% / 7 ## ! #
j' *# ' Q &/ Q 5*3B2*= * B/0 5 ' #4 ' 2' = B'
; 9392++2 ; 253' +2' < :B32' 54.288 B2 ; 253' +28' G: ; ; 28'
' 80253B2*= B0 ' @' ' # / ' - !
- ' ' A5 6' 8' ' ?9258' 93= 2B' 42' 3' : + ' 23' + '
?9258' 25 98' 42' :9+:J520 ?9 ' 3B: <' 8&253B2*= : 253'
& B ; 0280 8&253B2<B 8253' 42E 53' + 2' B: 0 1&# ' " ' . - '
< ' "" ' 3' 52' < :5B?9 53' + H+2' ; 5' 23' + ' 2 ; ; 2I'
8&253B2=2253' 3 53' ?92' + 52' E29+253' 42 ; :B2B' 2582 ; K
G+20 # ' 0 " ' ' S 6 8' B' E 53' +M 82' 253B2*
= R: 253' . : ; ; 2' . = 258' 23' . = 80' 1&# ' "7' A / ' " #)'
A - ' D ' " ' 1& # ' 6' # ' 3' 5 0' < ' 7'
' S 6 B' 29A' ?9 ' 8&253B2*= +882530 82' ; :B42530
B2<B255253' 23' 5@9B 253' &95' & 93B20 3:9 ; 253' 3:93' 3
E 22' 23' B2<B: . =20 ' "
- ' (! 0 < - # ' 23' & #
3' *# ' Q &/ Q 5*3B2*= 5*34/0 5 ' # '
2' G 532B' &95' & 93B2
- # 0 AE 6' 8' &253B2= 532B0 Q ' ME%
' ' < - # ' 23' & - #
3' *# ' Q &/ Q 5*3B2*= *<<4/0 5 ' # '
2' = <<2B' &95' & 93B2' '
- ' # ' S 68' 58' . : ; ; 25? ' + ' ; 28+42' 428' 429A'
+R:580 023' 49B ' 0 ; :9+3' + : 5J92 ; 2530 8' 8&253B2G <*
<2B253' ?A' : 5J+28' 23' 9A' 4258' 0 ?9& + 5&R' 293' .2 9R' ?9 '
5&2983' <+98' 42' 4 A' <+ R280 * - ! ' "7' (' 3 0' 6'
- ' ? ' < - # ' "% & #
3' J*# ' Q &/ Q 5*3B2*= B*82*+4/0 5 '
' 2' = B.2+2B' ; 9392++2 ; 253
' ' O I' (' 1" / %' "60'2" &" ' ' 9
' ' / %' " ' "% & #(#
3 *# ' Q &/Q25*3B2*= B*<4/0 5 ' #4 @
8 8 B0 8&2 ; < : J52B' :98' 429S0 988' GB93 4A+&95'
?92' & 93B20 8&43 253 253B2*= B<48' 23' 82' G 33B 253'
<293*43B2' 25. :B20 6 ' D! ' (! ' 50' 8
' ' < - # ' 23' & 5. 25' E2BG2' & # # ' 8 8 B'
QE:R' 6 G
3' *# ' Q &/ Q 5*3B2*=29B*34/0 5 ' # '
2' =29B32B' ; 9392++2 ; 253' 2' ; 4 ; 2' ?9& + 5& << B*
3 253' ?9&4' 428' E29J+280 ?9 ' 52' E: 253' < 8' +2' ; 3' : +
+8' E:530 42' 8&253B2*=29B32B' 4 58' 95' . =2 ; 50< : '
' " ' # ' < ' " ' 7(-
- ' # 0 A56' 8' ' . =2E + 8&253B2=:B3253' 42E 53' 25
; ' + 2' < 8' H< : 3B +@0 : 5. 8E ' "7" ' LA 68' 8 ' 4253
H828' 425380' 582 ; G+2' 8' 8&253B2=9B3: 2530 $92' < :B' 95'
< : ' 52' 8&28 ; : 2530 + ' "7' #! ' LAE 6' 8' 28' B ; 428'
8&28GB 5+2B253' < :9B' 8&253B2=29B32B0 ' 66
- ' ? ' < - # ' "% & 7# #
3' 0' ' Q 5*3B4*++ *840 8420 '
; :9 +428/0 " ; ' 3' 25' :B ; 2' 42' 3B2 ++ 8P' ?9 ' B28*
82 ; G 2' \' 95' 3B2 ++ 8
' ' 5' "0' 23' #
3' *> ' Q &/ Q 5*3B2*@: 5*4B&/0' 3' B4[' 2'
@: 54B2' B4. <3:?92 ; 253
- ' ' S 6 8' 83 58' +28' BGB28' <+ 5348' :B3' <B48'
&95' 42' & 93B20 \' + ' + : 5J92' 8&253B2@: 54B:53' 253 2B2*
; 2530 * ' " ' ' Q ; ;
- ' ? ' < - # ' "% ; ! - "#
3' * ' Q &/ Q 5*3B2*@:9*4/0 5' #@ ' 2'
I: 92B0 82' 3B: ; <2B' &95' & 93B4
' ' O I' (' 1" / %' "9* ! " ' ' ? ' ' - "&
' ' < - # ' ; ! 7 #
' *> ' Q &/ Q 5*3B2*@9*B4/0 5 ' # ' 2' @9K
B:B' B4. <B2?92 ; 253' ?92+?92' . = :82' 095' \' & 93B2
- ' ' O I' 8' 3' 8&253B2@9B253' 23' +2530 $9&\'
U+29B< : : B' 8&253B 42B:530 ' . ! ' "N "C
' < - # ' ; 7# #

0 ' Q 5*3B2*+ *840 842/0 < B30 '
> : 53' . : ; ; 2' < B' 95' + .8' 29A' ; 58' 2<3B2+ .428'
28' < B3 28' .B: . =928' 43 253' 8' < B 32 ; 253' 253B2*
+ .4280 8 E' M ' :98' 43 :58' 4< 9+2' . : 53B24< 9+20
< 24' .253B2' < 240 3:98+28' 52B 8' 325498' 23' +28' GB 8'
253B2+ .48' . : ; ; 2' 428' 82B<25380 . = .95' 8&2 :B. 53'
4&25+2E2B' 42' 32BB2' 8:5' 2552 ; 0 % ' , ' E ' LL J'
; 28' B3 832 ; 253' 253B2+ .4280) ' < '
" ' ' 5 # ' b
! ' Q 5*3B2*+ *82* ; 5/0 ' ' .K
3 :5' 4&253B2+ .2B' :9' 42' 8&253B2+ .2BP' 43 3' 42' .2' ?9 '
283' 253B2+ .4' 53B2+ .2 ; 253' 42' . = B280 4& B G28*
?9280 42' GB 5. =28' S+ ' 50 +2' =4G 50 < B+&253B2*
+ .2 ; 253' 42' 828@ ; G28' 2342' 828' GB 80 898<254' 3:98'
+28' ; :9E2 ; 2538' 42' 8:5' 4E2B8 2B2' ?9& + 3 253' 8:98'
+9 0 + 2' 82BB2' \' + ' J:BJ20 23' + 2' :B.2' \' +2E2B' + ' ; 5'
< :9B' ; B?92' 42' 8 44 320 6 ' ? - & ' . = ' F'
' J' 2 E2B8' BB4J9+ 2B8:53' + 2' ; 4 ; 2' 253B2+ .2 ; 253'
" ' B ; 28' ?92' +28' :4280 ' 3' AA 0 < ' "FF' + R' '
4 58' &253B2+ .2 ; 253' 428' ; :B.2 9A' H42' ; 98' ?92I' 95'
B3' 2A?9 80 ' >' :988' ' " ' 7 ' 9' ; <3' / ! "
- ' # ' O I' (' 28' B:9 J28' 23' 253B2+ 882 ; 2538'
428' . :B<8' .2+283280 6 ' $DS
' ' < - # #
' Q 5*3B2*+ *84' 2' W <B254' 952' .4*
4 ++2' 42E 53' ' :9' ! ' : 5:98' 253B2+ . :580 253B2+ ? 53/0
/ ' ' ' ' > : 54B2' . : ; ; 2' < B' 95' + .8' 53B2+ 22B'
428' J9 B+ 5428' +8' 253B2+ .253' +29B8' GB ' 25' 4 5*
8 53' 5' H B. = 4 ; 98I' 3' . :9<2B' 428' BGB28' 898' + '
; : 53 J52' 42' R3=4B:50 23' +28' 253B2+ ' ' 42' 8. 528'
< :9B' 8:9325 B' + ' 32BB 882' 44' < B3' 23' 4& 93B20 , - '
' - ' 1<75# ' 3' 50' <0 M M ' LL ' &2<3B2+ 22B0
' # ' < # ' 4 8< :84' . : ; ; 203 5' + .8 2' + 2BB4' 8&253B2*
+ .2' \' .23 BGB2
- ' (' ' 5+ 4 B0 1"(%
<B254B20 45E2+ : <<2B' 4 58' 95' + .8P' 253B2+ 22B0 .&283
@: 54B2' < B' 95' + .8
- ' # 830 ABE6' 8' 5' . = 5.B2' H. 5.2BI' B5: 3' 5*
. 25' 23' 253B2+ . 4' 42' E +928' 23' 42' 52B80 ' '
- ' 6' 7"0' 5(, ! ' LL S(" 8' H = + <<2' 4& B32E2++2'
9A' 53: 8' I' :9E 2552' E:98' 42' 5:8' 2552 ; 80 23'
. = .95' < :B32' 8:5' G 83:5' 3:93' 4B: 3' 42E 53' +9 P' 23'
E:98' 253B2+ .2M' 42' E:8' GB 80 < B' ?9: ' : 5' 52' <9 882'
253B2B' 424 58' E:98 ' 88*G0 0' " %
' ' < - # ' ' #
' Q 5*3B2*+\ /0 ' ' LL 0 :B4:58' 253B2K
+ .48' < :9B B2' ?92+?928' 5:2948' LL 6' 2 5 2' 4& B*
. = 32.39B2' ; 2 ; 2538' 42' +29B:58' 23' 42' + 832+8' + 48'
2582 ; G+2' 23' .B: 848' LL 53 2+ .8' 4& <<9 0 93B28' : ; 2K
; 2538' 42' 8.9+<39B2' \' @:9B0 ?9 ' 3 255253' ?92+?92 : 8'
+ 29' 42' G +983B28' 23' 42' B ; <2 ' 4&28. + 4B' LL 2B ; 2'
42' <2 539B2' B52B 25 8' 42' 29 ++ ' 28' :5' 42' E J528'
?9 ' 82' .B:+8253' 4 58' 95' 3 G+2 9' LL "6' 2B ; 2' 42' < 8K
82 ; 2532B 2' :B4:58' :9' +238' <B: <B28' \' 33 . =2B' 428'
B 42 9A0 428' : ; 2 ; 25380 23: 0LL' % 2B ; 2' 42' . ++ *
JB <= 2' B 38' 42' <+9 ; 2' ?9 ' 82' + 253' 23' 8&253B2+ .253'
+28' 958' 4 58' +28' 93B28
- ' # 0 S 6 8' &283 53' < :88 G+20 . : ; ; 2533@9& : 5'
; 5 2' 228' 8:92:580 4& ; ' 8:B3 B' 3:932' + ' 8:+20 \'
. 982' 42' .2B3\ 58' 255B23 8' ?9 ' 82' B25. :53B2' 48' <+ : *
3:580 ' ' ' "7 ' 28' @23:58' 428' G 280 J25*
.48' < B' 253:B3 ++2 ; 258' 23' 253B2+ 80 +28' B254253' 42'
G2++2' B2<B28253 3 :50 ' D%$
- ' (! ' < - # ' 23' (
3' * ' Q &/ Q 5*3B2*+4*84/0 # ' 2'
+ 882B' B4. <B2?92 ; 253' ?92+?92' . = :82' 28429A<2B*
8:55 J28' 82' 8:53' 253B2*+ 8 4' +29B8' < :B3B 38
- ' # ' S 6 8' +M 82' 253 B2+ 88: 253' 3:98@:9B8' 9'
42< B3 B' &95' 4& E2. ' & 93B2' 95' J9 ++ :5' 42' 428 B0
' (' B
' ' < - # ' 23' #
3 0' ' Q 5*3B2*+ B*440 442/0 #
' ?94' 42' + B4' ' 542' 253B2+ B4420 E 542'
; 4+42' 42' JB 8' 23' 42' ; JB20 LL J' 8. :9B8' 253B2*
+ B44' 42' . 3 3 :58' LL 3R+2' 253B2+ B440 83R+2' ; 4+4' 42'
B 5. 8' 23' 4&952' 93B2' + 5J920 89B3:93' 42' + 3 5 '
38 ' =95. ' + GB9 ; ' < B' E2539B2' 2<2B 8253:5' .G2*
; 50' 2442' ; G ' + ' . :9E2B39B20 $' 982' .3 ' 283' 25' < B*
. =2 ; 50 LL 5' 4 3' 988' 83R+2' G J BB4
3' ! ' Q 5*3B2*+ B*42* ; 5/0 ' '
2B ; 2' 42' .9 8 52' .3 :5' 4&253B2+ B42BP' 43 3' 4&952'
E 542' 253B2+ B442
' Q 5*3B2*+ B*44/0 2 ' ' L' 6' 32B ; 2'
42' .9 8 52' ?92B' 42' + B4' 53B2+ B42B' 95' +23' 42' 53'
G:29 ' F] ' < B' 2A3258 :50 ; +2B' .2B3 58' 5JB44 2538'
4 58' 95' ; 438' 53B2+ B42B' 95' < \34' 42' . + :98' 42' J *
B: +2' 6' J' 53B2+ B42B' 95' 4 8. :9B8' 42' 2B80 42'
. 3 3 :5" + 3 5280 R' 584B2B' 428' E2B80 428' < 88 J28'
+ 3 58
- ' # 0 A +6' 8' 29B' 4 852B8' 253B2+ B448' 9' 2'
.2' ?9 ' <+98' <+ 8 53' +29B' 90 2 9' 42' G 8 2B8' 8 *
E:9B2980 >> ' ' & - ' NN ' LL AE6' 8' & + E: 3' 29'
<29' 42' < + 4' 428' 3B <28' 23' 42' + ' + 5J92' 42' G:29 ' 25K

. :B2' 25' 2 3* + ; : 58' 42' .2' G2 9' G: 9 ' 253B2+ B440 E
' S 0 ' ! 75 ' AAA 6' 3<9 8' 82' 88 B253' 25' :B4B2' \'
3 G+2' 253B2+ B42M' 42' 4 ; : 82++2800 #(!# ' 0 6 +
- ' (! ' < - # ' ' #" #
3' * N ' Q 5*3B2*+ B*@&/0 " ; ' 2B ; 2' 48'
. : ; ; 2B.2' $9 ' 3 253' +2' ; + 29' 253B2' + BJ2' 23' 43B: 3
' ' < - # ' 23' # /
' Q 5*3B2*+ *89*B&/0 8 ' ' 53B2*
+ .2 ; 2530 . : ; <+ . 3 :5' 42' J9B28
- ' # ' ! J 8 ' 28' 4 5828' \' <+98 29B8' 253B2+ 8*
829B280 . :9<29B28' 23' 4 E2B828' . 425.28' 3B48' 4 *
. +28' \' <<B254B20 " ' 5 0' AR ' +98 29B8' B ; K
. 3 :58' 23' 253B2+ 889B28' 42' <23 328' E 5280 B32B28' 23'
+ ; 258' 52BE29A0 ' ' M$
- (! ' < - # #
3' 3 * + ' Q &/ Q 5*3B2*+ *4/0 5 ' # ' @ ' + 2B'
&95' & 93B2
- ' ' S 6 8' & ; :9B' 4:53' +29B8' . . 28B8' 283: 253'
253B2+ 48' 23' 25+ .480 : ; 8A 0 + (:9E' S (5 ' LLAE 6' 8'
5' ' 42' + ' 4 .9+34' \' 9. =2B' + 2' 8 5* : 50 < B' 283B2'
42' +9 * ; 28 ; 2' :B3' 28<48' 23' 253B2+ 4' . : ; ; 2' 3: 8:5' 42'
+ 520 ' ' ' C
- ' (! ' < - # #
+e * ' Q 5*3B2" *J5&/0 ' ' LL 6' &28< .2'
253B2' 429A' J528' 4&4.B 39B2' .B B2' 4 58' &253B2*
+ J52' ' 5' 253B2*+ J520 4 58' &28< .2' ?9 ' 283' 253B2'
429S' + J528' ' 283' 44 2545' 9A' 5:3 B28' 4&4.B B2' 25'
253B2*+ J52' LL 2B ; 2' 42' ; 98 ?92' 28' 28< Y8' :9' 5*
32BE ++28' ?9 ' 8:53' 253B2' +28' + J528' 42' + ' < :B342' 5'
4 3' <+33343' 532BE ++2' :9' 532B+ J52' LL 6' 2' ?9 ' 283'
4.B 3' 453 2' 429A' + J528' 5' 253B2*+ J52' < :B3 3' ?92
' ?7 ' 7# ' 28' 253B2*+ J5280 < B.2' ?920 G 25' ?9& +
8& J 882' 5:5' 42' / - ' - # ' ; 8' 80 ' - # '
' / - ' : 5' <253' 4 32' ?9& + 8& J 3' 42' <+98 29B8' + K
J5280 <9 8?9& + 8& J 3' 42' <+98 29B8' 28< .28' 28 5J9*
+ 2B+9 * ; 4 ; 2' 82B 3' ; 29A' 4.B 3' - #) / - ' 1 ' ; :3
283' . : ; ; 2' - #) @ 3' + 2' JB 54' 98 J4' : \' + 283' & '
3' <B254B2' < :9B' 95' ; :3' 95 ?92
- ' # ' S 6 8' 5 :B2' < :3' 283B2' +233B2' 98842' 25'
93B2' ; 5 2B20 8' . : ; ; 2' ?9 54' + R' ' 253B2+ J59B20
' % ' ' AE 6' 8' B2 ; 2B' ?92' 42' < 882B'
:93B20 @2' E:98' <B 2B ' ; 2' <2B ; 233B2' 42' B2' .R'
.2332' 253B2+ J52' < : B' <9 8' B2<B254B2' \' ; :5' < : 5 '
+2' + 42' .2332' J252 + :J 20 < ' . & #(& '
< ' FN ' ' 4 58'
- ' (! ' < - # ' 23' / -
' ! " :@* , ' Q 5*332*+ *B&/0 W ' ' B2' ; < B *
32 ; 2530 \' 42 ; ' >2' 5& ' 3' ?92' &253B2+ B20 '
1I' 4 58' +2' ' " '
- ' # ' ! J ' 53B2+ B2' H+ B2' 2582 ; G+2I' 0 '
*
' ' < - # ' 23' A#
3' * ' Q &/ Q 5*3B2*+ : B*J54/0 5 ' #
2' + : BJ52B' &95' & 93B2 : 8*39' .28' 429A' ?9 ' 8&253B2*
+ : BJ5253' 3' 4& 53253 :5' 8&253B&4G:BJ5253^'
- 7 ' +
- ' (! ' < - # ' 23' ! # / - #
j' * ' Q &/ Q 5*3B2*+ :9*4/0 5 ' # ' 8'
+ :92B' &9 ' & 93B2
- ' # ' S 68' &253B2+ :92B0 7
- ' (! ' < - # ' 23' ! 7 #
" , :@ * , ' Q 5*3B2*+9 *B&/0 W ' - ' 9 B2' \' 42 ;
5' E:R 3' + ' +952' 253B2*+9 B2' \' 3B E2B8' +2' 29 +*
+ J2
- ' ' ! J 8 ' 5' (" + ; &* - % #" ' . " * - ' ' ' &* - / '
#" ' + ' - - &" ' " / %' " & ! - ' " 428' ; 0 ' / * - (' \' &0' ' " . " ' ; " ' 0% - * / '
/ ' (* & " - & ' , ! - ' # * / / * - % #" ((/ (' ' " ' $'
- ' (! ' < - # ' ' 7 #
' * ! ' Q 5*3B2* ; * *4&0 ' ; :9 +*
428/0 ' ' 2B ; 2' 42' < 4. =2' +23' < 2BB4' 23' + :94' 25'
98 J2' 89B' + ' ! 44 32BB 542
* ! ' Q &/ Q 5*3B2* ; 5*@4/0 5 ' # ' 2'
; 5J2B' +28' 958' +28' 93B28
' 6 ' B ' 28' <23 38' < :3253 38' 8:53' G 25' 828'
?92' +28' JB 548' 8&253B2* ; 5J2530 ' 7% ' R ; '
B2:29' 428' 88 2J2M +2' 82B ; 253' 42' & 33254B20 82' 4298*
8253* +8' 253B2 ; 5J2B0 ' K ' 8
- ' (! ' 53B20 23' - / #
' * ! ' Q 5*3B2* ; 5*@:*B 2/0 ' '
:83 + 348' < B' +28?92 28' 428' G: ; ; 28' 42' ; 4 ; 2'
<B: 288 :5' .G2B. =253' \' 82' 59 B2' B4. <B2?92 ; 253' >2'
5& ; . ' < : 53' +28' . : 5 3 0 +28' . G +28' 23' +28' 253B2*
; 5J2B 48' <B: 288:B +28' ?9 ' B4J5253' 4 58' 3:9328' 5:8'
. 44 ; 280 $ ' + ' *' C - 7 ! ' B' ; B8' M)
- ' (! ' < - #) - / #
3' & # ' Q &/ Q 5*3B 5*G *B *84/0
' # ' &2 ; G BB 882B' ; 9392++2 ; 253
- ' (! ' <#7# ' 23' ## #
j' + & ! ' Q &/ Q 5*3B 5*GB * 4/0 5 ' # '
&2 ; GB 882B' &95' & 93B2' 28' 4< 528' 8&253B2+ .253' 23'
8&253B2 ; GB 88253' 4 58' +28' = ++ 2B80 ' ' D & '
K &7 ' ' !
- ' # 0 AEB' 8' 9.958' 8&253B2*8 +92B0 93B28

+0 5 62 ; GB 882 ') ' 0 ' 8&253B2 ; GB 882 :3
B 2' <B:3283 3 :5' 4& : 9G+ 2B3 : 9328 . = : 828 Q '
- 'F (!' > A '23 1
V !", : F#*T 'Q &/ Q 5*3B2* ; "* W*B&/0 : '
F2' B2 B . <B: ?92 ; 253 49 ; +28 958 9A 93B28
- '# 'S 6 ' &253B2 ; 2 B2 #"! - - ' " '#! '
" ' #' < ' NC
' "U6 ' > A '23
3 H 'DO/@%'"@ + #@ '&#"E 40'% 40((H'
?#-# 40'^2- 40'@[' "(26#/"("/%'" + #&#(O! :' 6#@
%'"(' '4"-/'" "!%@-& #-% 2"(40'*&"("/%'" + #&#"(#"
(*!4-'(' # '9 '<.--' 'O'"!' !/' %" + 4('*# &
2*/."' (O%-*/' #%O-% (*!%"/!'" 40" !/' #-(2*!'("/%'"!'
+ #&# #'" + *%("% #!02%-*/('2*-%/- ' */ / '6! + '
40'%' / ' ("2%' G' */'%'O.0-&' "/%'" + # '#'"&"2%!'"(
-/%#'"((O/%"(' +" &O-((O-% 4"!'#'" + * + "/%('#!"//!-'
') '.-
3' Q 5*3B 5 *+2* ; 5/ B' ;
.3 :5' 4&253B2 ; 4+2B B489+3 3' 42 .2332 .3 :5
-' 'O 8' 283 253B2 ; 28+2 ; 253 ?9& +8 :53
49 G2 9 E2.' +2 + 4 23 49' G:5' E2.' +2 ; 9E G
28G :9 3 +28 R29A' 428 ' ; <+28
-' (#'> '<B:E25?' A A'
28< J5' A A
!2 + Q 5*3B2* ; N* N/ 3U :' LL*46 ! +2B
< B*.' < B*+ 584B2B < B*.' < B*+ ' 53B2 ; 4+2B 428
Q+29B8 B:9J28 '428 +29B8 G+ 5.=28' U <3J' 53B2 ; 4K
+2B+ ' B23B 32 23+ '8:2 434' 53B2 ; 4+2B 428 <+ 8 532*
B 28 4 58 952 4 8.988 :5 84B 2982' 2 ' 932B3B2
253B2 ; 4+2 8:5 B4. 3 42 825325.28 42 454?92 6 :
'2 ' E C'NN 6 &253B2 ; 4+2B 5' '
3B2 253B2 ; 4 ' 28 59 5.28 ?9'8&253B2 ; 4+253' 2
; + 283 ?92 4 58 & 5 8&253B2 ; 4+2 3 428 :9B< $9&'
93 .=4 ; 2B :5 5:98 B9 52 25' 4328 @ '
- 1 ' 5 ' &=83: B2 J454B +2 23 +28 ; 4B5: B28
< B3 .9+ 2B8 82 2: ; ; 95 ?9253 23 8&253B2 ; 4+2533 : 9328
+28 :8 ?92 & 534B43 <9G .' 23 & 534B43 <B E4 :53
428 B <<:B38 .: ; ; 958 6 ') '
:' ,/ '3'E ; '<' 83 ' 4 58 6 ' LL 6 &25U
B2 ; 233B2' B' ?9:' G25' 8&253B2 ; 4+2B .3 9
V'# A9 6 8 9 83B 8253 Q3 B4B253@ +28 28<428
23 8&253B2 ; 2++2B253 +' 958 28 93B28 23 ' :3 JB 53
<+2+8 H392B 21 ' '< '<'N"' ' :3 < B
298 5 29AI' 253B2 ; 28 428 : ++28 4W B:828 JB 58 23
428 Q+ BJ28I '< ' F7C' LLA@E6 8' 2 <+98 <B29 42
8:5' .:B<8 ?92 59+M <:BB: 3 3B:E2B 3 29B29A 42 .2
4:53 82 E29+3 253B2 ; 2+2B 2 , ' 8838' LLAE6 8' 2
8253 8' E 53 253B2 ; 28 428 .2++28 .=:828 4&95' .:834
23 4& 93B2 ' 7 ' F7' LLAE 6 8' '52 E:9+93
52 +9R' ; 28 ; 2 <B254B2 .2832 .= BJ2 5R 8:9 B B
?92 <2B8:552 428 8 258 8&25' 253B2 ; :8+ 83
0 7 &' ' 2832 <9G+ ?92 B28@:5 88 5.2 283: 3 253B26
; 28+42 42 + B ; 28 '& 1 'NN' ? 8 39 < 8 G 25
?9& ; :9B ' 42 .: 9839 ; 2 253B2 ; 28+2B 828 <+ 8 B8
4& ; 2B39 ; 2^ ' ' " ' $9:' ; & ; 982B *@2 '
E:98 428<2 54B2 + ' ; 2B 3:932 25' 8 5J 253B2 ; 28+44
42 .:B<8 42 3:9328 ?:58(' ? ' '9 3' 2BK
3 58 ; <:8329B8 ?9'8&253B2 ; 28+253 42 3B +2B 9*
89528 < B3 28 42 + ' .= B9BJ 2 '$ ' O
-'c (#'> '23 ; 4+2B <B:E2=?'
28< J5' 253B25 28.+:B ?' 3 + ' A *
Q 5*3B2* ; 2*M9*B4/0W B4''
2 ; 289B2B B4. <B: ?92 ; 253' >2 E:8 42 3:58 .4348
428 < B3 8 23 428 + J928 = .95 8&253B2* ; 2 9B2 23
:B ; 2 828 53B J928 ' 7 (&'-'-
-' (!' +3B2 23 ,
'Q 5*3B2* ; 4 8 82 + 2 428 5*3B2*
; 4*M 9 89.B2/ ' ' L' 6 B:<B2 ; 253 3:93 .2 ?9'
82 3 253B2 48 ; 238 23 4 58 +2 ; :R25 J2 4K
E2B3 882 ; 253 ?9' 82 8 3 4 58 95 532BE 24'
B2< 8' 9B + ' 55 49 4 52B .: ; ; 25?' +2 8<2.3 .+2
:9 253B2 ; 238 :5 E 3 < B 33B2 95 E 882 9 E2.' 828
; 38 E: +28 23 .:B4 J28 ! 1' 'O '
> '3 E< " QQ 9@:9B4&=9 025' 32B ; 2842
.9 8 52 +2 82.:54 82BE .2 .2+9' :' < B +3 +2 B 3 '
+' 6 B4.9+ =B2 ; 253' 28 253B2 ; 238 :9 98 5J9*
+2B 4 58 +28<58 42 <+ 3 4&25'2 ; 238 +28 ; 238 82B*
E8 25 ; 4 ; 2 32 ; <8 ?92 +2 BN3' 23 ?92 :5 ; 5J2
<B 8 < 3 882B 28 :29 8 B 39B28 ' 428 23. ' R
E 3 = +3 253B2 ; 2+ ' 2 ; B .= + 4&#9 ; B28 3
; 5J2B 428 B J:938 23 428 253B2 ; 238 9 '= , '
B ' F' $& & 583 53 42 .2 82BE .2' 5 3 3 +&25*
3B2 ; 23 ; 2B8 &253B2 ; 238 .: ; ; 2 + Q3 :58 29B E2B'
8 +3 4&95 E 5 42 + ?929B ' ! ; 2 42 :9 + :5 :58 & *
<2B ?93 ?9& ' G +G93 3 ! '7 ' LL ' '
8&283 4 3+:5J32 ; <8 9 3= 3B2 9 82584& 532B ; 42
-'=3 'A5 6 8' 3 53 2M* :8 95 253B2 ; 8 2 G:K
528 8 9.8828 <2EB 28 ' UU' - 1 F '3' 32'
<'FC' 23 G+28 <+ 528 4&253B2 ; 2M '< ' "C%
@LA ''F' 28.=2 B:28 4 B :+28 23 B253B2 ; 8 + 4*
' , ' " ' &253B2 ; 238 ' ,7 ' HGB:.=238 23 . B*
<28 1' 'S 6 8' B 54 <+253 '42 ; 238 23 4&253B2*
; 838' :88' ' + ' &95 23 & 9+3B2 <B282532B253

'G 3 +2 <:9B 253B2 ; G R / '" '1& # ' '
'<' Y'4 58 ' O ('' ; & '82 ; G+ '?92
.&283 253B2 ; 238 42 .2 ?92 5:98 E:58 28.53 493RB 5'
:5R8 98 52 52 82B: 3<:53 ; <2B3 5253 5R=:B842'
<B:<:8 4&283B2 582B ' 5 .28 E 28 $ ' , ! '
-" (!'<)-#'23
! 'Q 5*3B2* ; *329B 32 *M&/
'23 ' 6 2+9 .2++2 ?9' 8&253B2 ; 23' ' 3'
&253B2B:23329B 42 .2332 B2' : 4' ?92+?928 B3K
.+28 ?9& ' ' 4 .3 8 +9 * ; ; 2 5:3B2 253B2 ; 23329B
<:9B E:98 3B2 ; 3 ; 3B 8 E 53 ?92 42 B 25' B2
'?5 # ' 3' 28 < .= 8 4:53 8 8:53 +28 25*
3B2 ; 23329B8 '0#!5' N' = :4:32 E 82 J +2 ; 253
'82 B2 428 < 3B:58 23 428 .B 39B28 + 283 ; 4 *
329B :5 4253 253B2 ; 23329B + E:93 J:9E2B52B
' ' . + ' + 283 @9832 ?92 .2+9' ?9' 25' 283 & 5*
32B<B'32' :9' &253B2 ; 23329B Q428 ; B?928 42 + ' . = *
B 3' 42 ' n + ' B288253:' E2.' G:54 5.2 # '
0 -"/' '<' 7%' 9B 3* + 9 3 53 4&253B2 ; 23*
329B8<:9B E:98B .:5. + 2B^ '1 # '0 #"! -'
' I' 5' 958258 8< . + 23 4 E:B G+2' 2 9 .2++2
?9' ("/ 428 53B J928 42 J + 532B 2' +2' .:5.+98 ?92
+' ; B?9 82 E 3 428 5.+ 5 3 :58 G M BB28 E9 ?92
+2 G:889' 8 3 +2 < ; 8:55 J2 4&253B2 ; 23329B !'
'H 'D ' 'B
-'# 'A 6 8' + 2 .2' 5.:53 52533:98 +28 9*
3B28 :B 329B8 23 253B2 ; 23329B8 49 J:9E2B52 ; 253
'? ')' 2 <B 5.2 E:9+:3 J92 4& 9G J5 93
8:5' 253B2 ; 23329B 4 58 .2332 53B J92 ; :9B29821
5& ' 2 AAA5B' 9+.958 Q4 29AI ; :R258 253B2
+ '4 E 52 23+&=9 ; 52 5 39B2 ; 24 329B8 253B2K
; 23329B8 42 5:98 [29 ' ' JQQ
-' (!'<C# #
! ! 'Q &/ Q 5*3B2* ; *3B&/ W' #" ' +
82 .:5@9J92 .: ; ; 2 ; 233B2' &2 ; <+:R2B 4 58 952
B2 25' E:9B 42 3 2B8' #' 8&253B2 ; 3 <:9B +28 2*
.:B42B <:9B :G325 B+29B JB .2' =+ =3' .&283 3:
B:8 52(' ?92 E 258*39' B2 . ^ - ' 2 ?92 @2' 8
< B3:93 + \ 9B8 ; &283253 ; 233B2 4& B28 ; 2 B23*
4B2 82BE G+2 9A J2 8 9B5 0?5' ' ' B ?9 54'
& ; :9B 4&95 23 4& 93B2 . 3' 293 8&253B2 ; 233B2 23
<B254' < B3 [' & B2 ' 3#3 ' >3 2= :98 5:98 25*
3B2 ; 233:58 328 958 <:9B +28 93B28 '?' '
' E:9+93 ; ; 2 8&253B2 ; 233B2 <:9B +2 ; 5325 B 4 58
8 '4 J5 3 @07 6' , & !'! ' NN
- ' 'S#6 8' # +8 + ' e 9B2M' B2 8 45 B 5.2
:2X 8 542 ; 253 2B28 Q<254 53 .2 32 ; <8I 8&283 49*
B2 ; 253 253B2 ; G $92 + 28 83 +2 B2' 2 8 53 =: ; 8
; G , & ' # '3 "' 9+ E2 3 :8324 42 + '32BB2
.28 H 29AI 4 8&253B2 ; 232 253 4&25.= 532 ; 253 23 42
8:B.2B 2 . ! A '<'3:8' LLA5 6 8' & E: B+:B< M ; :9+3
; &253B2 ; G 3 E:8 882 G 25 283B2 ; 8 E2.' 2+* .92 +
25 <B 8:5 9 :82 "N"NN' B: 3 :3 B 8:5' 2 ; :'
G+ 8 2B $9 53 :5?928 ; &253B2 ; G 4& ; 2B B:<'
JB 8 ; 58 ; &25 .: E 253 8253 B .G'""N ' 5<: 8
8 E: 2 3:93 42 E: B QEB I $92 42 & E: B I+2 G:93 5I
5: 253 283: 3 & ; :B8528&25 253B2 ; 23: 3 3= ' 1'
:93 8: 3 ' 58' ?92 +5& +3 < 8 25' 5:98 3:9328 +28
JB .28 ?9' 4: E253 283B2 25' =: ; ; 2 ?9' &253B2 ; 23
42 G ++ 2 ;Q' 9.958 4&29+M 8&253B2 ; *
83B253 4& < 8 2B +2 .:532 2BB:5' 94 3 .:532
RG 93 > #E' 'LLAE6 8' 2 8&253B2 ; 2.3B2 42
; 28 M >2 5&2=' B2?9 2B 59+28 52 59G 2J' '
.!-"' " IAE 6 8' $9' 8&253B2 ; 23 H J 3 .: ; ; 2 <B:*
.9B29BI' 4:3 .=2E2B 23 ?9' .: ; ; 25.2 23 52 < B*
3 8 '<2 52 <2B3 ' CN' #9 ; '52 E: +:3
< 8 ?9& +M :9R88253 B 25' 49 82BE .2 3 E 5 < B ; *
5GB2' 4& .?9 3 25' 8 53 93B2 .=:82 5M ?9& +M
253B2 ; 2 88253 H+ 88 88253I 3:932 93B2 G28:5J52
('7 '
-' (!' 53B2 23 # 3 <B:E25?' - # # 3'
28< J5' - # #3 3 + ' - # #
'Q 5*3B2* ; ; *6&/ # ' '
4&253B2 ; 233B2
! 'Q 5*3B2* ; *M&/ ' b LL ' <3 :5' 42
.2+9' ?9' 8&253B2 ; 23' A' ' :G3259 .2332 <+ .2 < B
&253B2 ; G2 4&95' ; ' 8 8' ; 5 255253 < B' +2
.: ; ; 95 G28:5' ?9& :5' 42 + 29B 253B2 ; 82 N' EB
" ('89B>'(Q#' & 5 532 & ' ; 54 2 23 < 8 8:5'
253B2 ; G2 28< B2\E:88:9= 38+ 'E: B G 25343 8:9*
; 82 ' - ' ' "' 3 3: ; 29A' = B:8
4:53+ '8 J2 253B2 ; 82 2 .2 8.= 8 ; 8 5 88 53 4 *
G ; 88 ' & J+ 82 '+7 - ' '$9' 2B? B 3 25
2 23 ?9&952 32+2 253B2<B 82 9 +8 4& J ; 2 ; 5:5'
; B 3\3 &253B2 ; 82^) ' +54B' ' LL B 2A325K
8 :5' >2 8 8 988' ?92 2 '82 82B3 2 &25=B ; 5 82
428G 982882.:5428 N' + E' E +233' MY' 5' . 8
?9& '82 82BE33 42 &253B2 ; 2 428 4 ; :5
0#!5'F' 2 ' E:9+9 82 82BE B 42 &253B2 ; G2 428
8258 <:9B ' <'0#!5' "F' LL ' 2B ; 2 42 ; 2B' ; '
42 .2B3 528 <23 328 < .28 42 G: 8 ?9& :5' <+ .2 25K
3B2 3\9A' 93B28 <:9B +28 B25 :B.2B 23+28 G59 B
- # ' 8'H+28 J2 ; ; 28I $9' \G+ 5.'28 ; + 8:53

0 88 828 2 + 98 25' + 98 H+ 29AI' < B 253B2 ; G2 ' '
D ' ' " " ' 'S 6 8' &283 < B &253B2 ; 82 42 + ' .:98K
39 ; 2 J92 .= 8.95 283 .:53253 ! ' + " " N' ' .2332
9B29B H ; :9B2982I' 3: ; G: 3 25' 95' .:9B J2 J252*
B29A +28 253B2 ; 828 H ; :R258 42 <+ B2I 283: 253 J2*
52B29828 42 ; 28 ; 2 ' ' ' 5.288 ; ; 2:3 +
8&:<<:8:3 9A 253B2 ; 828 23 52J:. 3 :58 :9' 428
3B2B28 :9 42 + ' < M ' '3
-'$?' <- #
3' *! 'Q 5*3B2* ; :*4 * :5 ' ; :9 +*
+ 28/ ' ' 2B ; 2 4& B.= 32.39B2' 532BE 2 253B2
429A ; :4 ++:58' LL?7' 7#' 28 253B2* ; :4 ++:58
'$?'<- # ' "% !" ! -
3' *# $ 'Q &/ Q 5*3B2* ; :*\ / 5 '# ' :'
; :?92B &95' 42 & 93B2
' 'O ('' 1"/%'1"+*", !" ' ' 9
'$?'<- # ' "% !=7 #
3' *! 'Q &/ Q 5*3B2* ; :B*4B&/ 5 '# '
2 ; :B4B2 &95' & 93B2' :93+29B . ; < 3 325' 4 8*
:B4B2 5' 5&R' 8 3 ?92 8&253B2* ; :B4B2 '
#/'/
-' 'S 6(' &253B2 ; :B4B2 9 '
'$?'<- # ' "% !#"#
3' & ! 'Q &/ Q 5*3B 9*< *.= /03/' # '
&2 ; < .=2B 82 J 52B ; 9392 2 ; 253' :9E253 +28
33B G938 42 + ' 4 E 5 3 ' 8&253B&2 ; < .=253 <'
+ ' # ' N7
-' 'O 8' '5:98 E:R:58 ?92 & ; 2 .:53 253
+2 . 2+ 23 + '32BB4 8 58 ?9& +8 8&R 253B&2 ; <28.=253
#' AE 5" ' " ' G' 8&253B2*=29B3: 253 23 8&253B&2 ; *
<28.=: 253 +28 958 +28 93B28 <:9B +29B JB 542 ; 9+K
3 39428 ' ,& ' ' 2 8:53 429A' :.. 9< 3 :58
?9 8&253B&2 ; <28.=2 3 25' +29BE J92:B 6 '?' %3
-' (!'<- # '23 & #
3' 'Q &/ Q 5*3B 5*\:9*B *@ /
'# ' &25.:9B J2B 95' & 93B2
' 'O ('' 1"/%'"*2*!'07"' ' 9
'$?'<- # ' "% - !7# / #
3' ' * ' S *# 'Q 5*3B2*5 B/
' ' 8< .2 .: ; <B 8 253B2 +28 52BE9B28 49' 4:8 4&95
+ EB2' 5' 829+ 253B2*52B '2A J2 ?92+?92 : 8 ' :9 9
.:9<8 42 2B8 ?9 .= .95 3 ; 3 <:9B 58' 4 B2
93 53 42 32 ; <8\<: 882B ?9&:5' 25' ; 233B 3 \'<:9882B
+28 2B8 \' 4:8 ' . 7# '<'
'$?'<- # ' "% - #
3' & 'Q &/ Q 5*3B 5*+2*E / '# ' 5*
+2E2B B . <B:?92 ; 253 ?92+?92 .=:82 &95' \' & 93B2'
:9B 3\2=2B 42 8&293B&25+2E2B +28 <B: 38 42+ @:9B*
5 2 > 'H# ' ""
'$?'<- # ' - 5 #
* 'Q 5*3B2*529/ ' ' 2B ; 2 42 G:*
3 5 ?92' 8< .2 .: ; <B 8 253B2 429A 5:2948 " ' .2BK
3 5283 J28' ' :B3 :5' 42 + ' 3 J2 .: ; <B 82 253B2 429A
< B28 :9' 429A 8 B 28 42 29 ++28' LL?7' 7#' '
253B2*5 :29 G QE:R2M : G
'$?'<- # ' "% -! 7"
3 * 'Q &/ Q 5*3B2*5 :9* / 5 ' # ' 2
5:92B B . <B:?92 ; 253
'6 ' (B ' ' 29B8 3B28828 82. 9 28 ' & *
G 54:5' 49 E253 2BB: 253 253B25: 28 ' S%%
'$?' / - # ' "% - ! 7 #
* 3' & 'Q &/ Q 5*3B 5*3 5*4B&/ 5 '# '
B2 4& 532++ J25.2 95 E2.' 98 82 E 8
253B 2 32542M .: ; ; 2 + B :58 25' : B2 '@7 '
"7C - 7#' ++
' 'O (' *!(#"(2*!.'*/(; -"/'".-#" + @
+ "/% , !!"/%%'" "&&"(D&"(' ; % (J -& 8' O ! /'" 4&"-/'" %
"/%-"'" 2* + + ! /-20%-*/'" , !!"&&"((1"/%'1"O%" /#"/%'
? - / ' '8' 0#"('2*/#-%-*/(, !- (1"/%'1"26"'@
26"/%' "%' 4*!'/'" (1"/%21"/%" /#'" ; - (("/%&"(6*+@
+ "("/':"%'" + " /"2"((-% ' + ' MM
'$?'<- # ' "% - -"#
* Q &/ Q 5*3B2*59 *B' 9'# ' 259 B2
B . <B:?92 ; 253 95' \' & 93B2' ' 8' 82 8 53 253B2*
59' :B8?92 .28 < 58 28 8:53 25' 3B:< JB 54' 5: ; *
GB2 2++28 8&253B2*59 8253 23 8& 3:9 253 ; 9392++2*
; 253 .: ; ; 2 + BB E2 \' 428 BGB28 ?9' 8:53 <+ 5\8
3B:< <B 8 +28 958 428 93B28 6 ', # ' " ' < '
' &283 95' JB 54 8<2.3 .+2 42 .:58 4 B2B +28
=: ; ; 28 ; '3 53 5 82.B23 V+2 8& ; 3B2*55 B2 23 :BK
.28 5 5 ; : 58 42 8&253B& 42B ' > M' ...S3
'?*" ' B ' & ; 2 .:53 253 +2 < 88 '23 +2 <B2K
8253 8 58Q<< G 8&253B2*59 8253 ' AE ; ' ""
'$?'<- # ' "% / ! %'
3' & ' ' Q &/ Q 5*3B 5*E:* ' +98 2 8
4 8253 5*3B 5*E: * / 5 '# ' &25E2R2B '<B:?92*
; 253 ?923?92 .=:82 &95' \' 93B2
' 'O (' ; '("/%'1"/.*8"'"/%#"('-(! /' [
O!%'"' ? '@ 'A
'$?'<C# ' % -5! #
3' ! 'Q &/ Q 5*3B2*< B*4:*5 /
3 ' 2 < B4:552B B 2. <E:?92 ; 253 ?92+?92 .=:82
95' \' 93B2

" N

' 'O '(' /' (!"/%'"@40'#*//0/% &"(2*!'K ("(';'!(&"+"/%(' +"!'%'"("% .*&"'-"(,!!-&(O.*-"/% ":"'2 (&"(!/(2"/%'" &"(O!%'"(' ' '3 -' (!'c53B2 23 #"!-- #

* 'Q &/ Q 5*3B2*< B* N/ 2'# ' 2 < B+2B BN. <B:?92 ; 253 &95' ' & 93B2' +8 82 8:53 253B2*< B+N ?92+? 2 32 ; <8 -' 'O '8' *!%(.28 . :5E E28 8&253B2*< B+: 253 G :B2 +2 'M

' '<- # ' ' # #
'Q 5*3B2*< 3/ ' ' 2B ; 2 42 ; 5 J2 R5:5R ; 2 <25 98 34 4& ; G+2' 2 .=2E + E '&25* 3B2< 8 -' 'O '(' ' <: 3B 52 H49 .=2E +I 42E 53 + BJ2 = 932 23 E 5.'2 25 42=:B8 + ?92+2 . 982 & JB 54 253B2< 8 23 4283:9B52 &253B2*3 ++29B2 :' ' "" ' -' 6'> ' " '> " '8 J5 +2 4 58 ' 42 2BB28 & 532BE ++2 253B2 +28 429A < 8 253B2

3' ' ('Q &/ Q 5*3B2*<"* / / ' ' 2 < R2B &95 & 93B2' ' 'G2 9 ; & .. G+2B 42 <B:328K 3 3 :58 >2 4 ; +2 8 ; 253 3:9328 828 .3 :58 ' 52 ; 2<B 32 B 25 ?92@2 52+9 'B25E: 2 :98 5:98 25* 3B2*< R:5842+ ' ; = ; 2 ; :B 5: 2 '*'H / ' 6 -' '> '23" 4
* 'Q &/ Q 5*3B2*<"B*8"' 2 (' <B254 952 . 4 ++2 42E 53 ' :9 :P 8&253B2*<2B? 53/ / ' ' 2 <2B.2B &:5 & 93B2' 28 429A .: ; G 33 538 8&253B2* <2B24B253 -' '> '23" *
3' * 'Q &/ Q 5*3B2*<"B*8 *\ *3N/ 3' '#'<2B842932B &95 & 93B2 -' '> '23" *,
3' ' Q 5*3B2*< 4/ ' ; ' B3 2 4&952 ; 29+242 ; :9+ 5 ?9'@: 53 .:5.253B ?92 ; 253+ ' 29 +* +9B2' ' 7#' 28 253B2< 248 QE:R'
3' * ' Q 5*3B2*< *+ *83B&/ 8' ; ' 2B ; 2 4& B.= 32.39B2' 532BE ++2 253B2 429A < + 8* 3B28' :9B .2 ?9'3:9.=2 +28 :B52 ; 2538428 253B2*< * + 83B28 ' ; 2 82 ; G+2 ?9&43 53 . 552+48 23 B .=28 4&29A* ; 4 ; 28 H+28 < + 83B28 ' 82 53 G 25 J B42B 42 J 32B +29B G2 934 < B+ '.:5 98 :5 428 :B52 ; 2538 '+ ' '1& - !7' '82<'"N" 'LL W< WB' 28 253B2*< + 83B28 QE:R' : 7 G
' * 'Q &/ Q 5*3B2*< *+4 ' ; :9 428/ 3' ' 2 < ++2B 95 & 93B2 -'# 'O '8' 88 53 +2 ; :542 .' &253B2*< +* +2B 5 EB2B 23 392B 8 58 ; 2B. ' 982 ' '<- # '23 #
3+e * + 'Q &/ Q 5*332*<+4*44U0W' ' 2 B2 B4. <B:?92 ; 253 95 <B:248 95 =+& 93B2' 29A J258 42 G 25 32+8 ?92 +B2 :5 <B:49 3 &25+B2*<+ * 4 253 89B + ' 9882 .449+2 ' ' < 'P ' +' ": ' '<- # '23 " #
j' * 'Q 5*3B2*<+ 5/ ' ' 2B5@2 B9K B +' 2<8 <+ 5348 4 58 952 E 2 + 2 E J52 <:9B 25 B2J ; B +28 E 428 ' U '<- # ' ' -
3 * :5 ; 'Q 5*3B2*<: 5*3 * 4 42 ' ; :9 ++428 23 5:5 5*+B2*<: 5*3 *R4 R42/ "; ' 2B ; 2 42 JB E9B2' ++ 28 253B2*<: 53 ++228 3 ++ 28 253B2 +28?92++28 :5 ; 23 49 <: 53 ++4
* 'Q 5*3B2*<:5/ 8'35' 2B5@2 42 ; K B 52' 3 J2 253B2 429A <:538 4 58 95E 882 9' &25* 3B2*<:53 4&95 5 E B2 42 .: ; ; 2B.2'LL &43 J2 5 4* B 29B 4&95 JB 54 5 E B2'LL &28< .2 .: ; <B 8 253B2 + 'G 332B 2 G 882 23 .2+2 @@9'283 ; ; 44 32< 253 9* 428898' ' 9A 253B2*<:53 824 349 82.:54 253B2*<:53' +L W< WB' 28 253B2*<: 5+8 QE:R' : 7 G ' '<- # '23 <:53
3' * 'Q &/ Q 5*3B2*<:B*34/ / ' ' 2 <:B32B 95 ' & 93B2' +8 8:9 B253 8 58 J4 ; B +28 .:9<8 ?9& +8 8&253B2*<:B3253 'O F 'O '(' ' $'O%"'/"&&" O+-%-" ,!" /*!(/*!("(%-*/("/%'"4*'%#"' '-.'Y') '> '23"
c 'Q 5*3B2*<N*M4 5'" " ' 8 25 253B2<43' 28 89.B28 253B2*<:848 'DO/@%'"@4M@<#E U ' ?"%%'" #"(+0'";0/#-("("/' "/%'"4#%
-' !' 'R' '428<B:E 5.28 :4 &:5 4:552 6 253B2* <:82B +2 8258 42 44<:82B' 253B2<:82B 8 . 552 25* 3B2<:82B 8:5 ; : ; GB2++2 ! 8 253B2*<:82B 5&' 9.95 93B2 8258 ?92 .2+9' 42 44<:82B 428 ; B.= 94 828 4 58 95 253B2<43' b 'O '(' -".'"($&+"'"(U#46#+#'"(J"%"/%'"@ 4*(#"(U-/%"'+-%%"/%"(J' 6' ' 'B0 " -' '> '23"
R 'Q 5*3B2*<4*M29B/ 8' ' 2+9' ?9 3 253 +28 ; B2G 54 828 25 253B2<43'LL J253 <B4<:84 G+ ' J B42 23 G+ 'E2532 42 .2B3 528 .=:828 4:53 +2

J:9E2B52 ; 253 ' +2 ; :5:<:+2' 5 253B2<:829B 428 3 G .8
' '<- # ! #
j' 'Q 5*3B2*<4*M*+4*B&/ ' ' ' ' 2B ; 2 42 .: ; ; 2B.2' 2+9 .2++2 ?9' :9 ?9' 44<:82 428 ; B2G 54 828 4 58 95 253B2<43
-' (!' 53B2<:82B
'Q 5*3B2*<4P 235282+ 2< 8 9<+9B 2+ &8 82 + 2 ' 428 5*3B2*<4*M*93 +28/ ' ; 'LL ' 29 42 44<43<:9B +28 ; B2G 54 828 25 33254 53 + 'E2532 :9 &2A<44 3 :5 :5 & .?9 332 ; 253 428 4B: 38 42 4:9 52' 25 B 95 253B2<43' ! B2G 54 828 25 25K 3B2<43' +2B G &253B2<43'LL ' 2B82 ; 253B42 :9 2* 3 '4 58 428 ; J 8 58 <9G+ .8 428 <B:49 38 <B:<B28 G + '.:58: ; ; 3 :5 2392++2' &253B2<43283B42+ ?9 54 +2 E2B82 ; 253 ' + 29 4 58 +28 ; J 8 58 49 J:9E2B E 52 ; 253 + 283 .3 ?9 54 +2 E2B82 ; 253 82 3 4 58 +28 ; J 8 58 49 .: ; ; 2B? 53 8:98 + '.:54 3 :5 42 B2<B482532B G 3:938 B2?9 8 3 :5 9A J2538 49 <:9* E: B +28 <B:49 38 253B2<:848 :9 42 < R2B & ; <43 42 .29A ?9& + 52 <253 < 8 B2<B482532B' 2 G93 42 &253B2<43 283 <:9B +2 54J:. 53 42 B23 B42B +2 < R2 ; 253 428 4B: 38 42 4:9 52 @98?9&G + 'E2532 42 828 ; B2G 54 828 + < R8 .28 4B: 38 G ; 289B2 ?92 828 ; B2G 54 828 8:B3253 42 &253B2<43 B42 :9 .3 ' '] 2B3 58 ; J 8 58 :G :5 E254 <:9B +2 .: ; <32 49 J:9E2B52 ; 253 :9 4&952 .:5+< J5 2' 53B2<43 42 3 G .0 42 82+ 'LL + 82 4 3 988' 428 ; J 8 58 <9K G+ .8 :4 8:53 44<:8428 +28 ; B2G 54 828 @98?9&G & .* ?9 332 ; 253 428 4B: 38' &253B2<43 428 E 58 428 2 9A*42*E 2'QL46 R8 E ++284&253B2<43 < R8 E +28 :G +28 ; B2G 54 828 8:53 44<:8428 @98?9&G .2 ?9&:5 +28 4 B J2 E2B8 +2 + 29 42 +29B .:58: ; ; 3 :5' 2+:5 8:5 42882 5 H49 .M BI 3:93 4:3 G:93 B G 432B8G:9BJ ?9' < B 8 '8 39 3 :5 82BG 3 95 253B2K <:3 49 ; :542 % ' ' # O ## ' B3= * J452 ; J 8 5 23 253B2<43 428 B .=28 28 ?92 & 8* < J52 3 B2 49 2A ?92 ' :938 ' "N' $9&:5 B +4.= 882 89B + '8 39 3 :9 42+ ' B 5.2 P 32 <:9B 43B2 253B2<43 49 :B4 23 49 ! 4 <:9BB 3*2++2 B 54B2 42 ; 5?9 B :9 4& .=232B .G2B^ 1! '/!75' ' 2<9 8 +:5J32 ; <8 +28 5J+ 8 4 8 B 253 952 <:8828 ; :5 ?9' <G3 42E25 B 95 ?53B2* <43 G +28 ; B2G 54 828 +28 425B428 42 + ' = 52 23 428 + 28 :B 253 +28 8 253 4.= 5J428 .253B2 +28 425* B428 +28 ; B2G 54 828 42 &+54:83 5 23 42 & 9B:<2 'K & ' 'O' : ; ; 88 :55 B24&25* 3B2<43 9329B ?9 4 58 +28 E +28 4 253B2<43 82 .= BJ2 42 B2.2E: B +28 ; B2G 54 828 ?9' BB E253 <:9B 828 .: ; ; 233 <38 23 42 +28 +29B B2 < BE25 B' ' ' :B3 + GB2 :5 <+ .2 42 .: ; ; 2B.2 :G 428 ; B* .= 54 828 3B 5JGB28 ?9' 52 <29E253 253B2B 4 58 +2 < R8 8:<3 4 <:8 2825 ; J 8 5<:9B 3B2 B 2A< B3G28 -'# 'S]8' 2<9 8 .2 32 ; <8 +G H+2 32 ; <8 42 9.9++98 ?9 'B <<:B3 ' +2 .2B 8 2B 4& 8 21 & 3 + 2 5:5 8233+2 ; 253 8&283 3B:9E 2 :985 2 42 .2B M 2B8 58 < B 8 5253B2*<:8 +2 B2832 42 & 9B:<2 :'58 "" ' 2 JB25 2B <:9B &253B2*<:8 428 :+ E28 82B 'G .:5E2B3 25 + 29 B 8 82. '5'O ' '<- # ! #
3' * 'Q &/ Q 5*3B2*<:<B*89 *EB&/ '# ' 2 <:9B89 EB2 &95 & 93B2 # 'S]8' &283 .=:82 42<+:B G+2 42 E: B .29A ?9' 4:B253 95 ; <2 =B 83 8&253B2*<:9B89 EB2 G 29 23 G 8 '' .: ; ; 2 G28328 8 9E J28 ' :4 "U '<- # ' ' !7# 7 5#
* 'Q &/ Q 5*3B2*<:9*8 / 5' # '] 2 <:33882B J92+?92 .=:82 &95'G' & 93B2' '+5* JGB2 +2 ; 2B. 2B <B 8 ?9& +8 82 8: :3 253B2<:988 ' 952 G:332 ? '283 253B2 +29B8 G:93 ?928 'H ' "7'0 'BE " ' 2 <:9882B &95 & 93B2'>' :B.2 42 8&253B2*<:9882B' 5 <258 ' +2 B:' B25E2B82B ')78' , #/' -' 'O '8' &253B2=29B3 58 +28 <58 +28 93B28 23 8&253B2*<:9+8 58 424 58 + '3B 5.=G2 25 JB 54 428 BB:R ' 0 ##&7 '
' '<- # '23 !7 #
' 'Q 5*3B2*<B2*5 *G+&/ "; '$9' <253 G3B2 253B2<B 8
'6 'O '8' '5:98 4: 3 283B2 8:9E25 G+2 3 G429A ; 58 2 3B2<B25 G+2 :9B+ 'JB 53 @: 2 <2B* ; 5 G+2 J: B ?9'5&283< 8 25 32BB2 ' ' ,#' "
' '<- # # - # ' 23 4@..3 '283 :B ; G .: ; ; 2 # - ' # -
Q 5*3B2*<B2*5 5 5 5*3&/ "; ' $9' 82 <:B32 .3 E2 ; 253 G ?92+?92 253B:<B 82' 5'G: ; ; 2 .3 '23 253B2<B25 53' '42 E:3B2< B:+2 2 ; ; 2 ; + ; B 42 ' 7 ' ! '7' + 42* E 253 253B2<B25 53 8 58 448 38 23 3 < B ; 9E 82 =:532 @'@' :588' ' E' 2332 :'2 ; &'3:5* @:9B8 B2549 3BG8*<29 253B2<B25 53 <B48 428 2 ; ; 28 '1!- ' '
* '# 'S]8' # B4 8 23 253B2<B25 58 ' "N ' 2 3:93 .2B2= 2B 25 .2 32 ; <8 ; &2+ :B2 R >2 98 = 83 8 .= 9A 23 253B2<B25 58 ' " ' <##' " ' + [2952882'LLAE]8' #: ; ; 2 B2<: 4 5:5 253B2<B25 53 $ '@! !-'N"0

8&25 <2B<: E253 'D - 7)' + 'E 2 2882 23 +28 ; +G29B8 4: ; 283 ?928 49 B:' & E 2$3 B2549 <+98 G+2 23 ; 4 ; 2 + '492G2882 49 !G 52 <+98 253B2<B25 532 QYY' :93 253B8 <' "F 4 58 7 ' '3B E2 42 "N 7 4:55 'G .2332 25K 3B2<B25 532 23 G29B2982 BG<9G+ ?92 H+' #:++ 542I +2 32 ; <8 42 ; B B 8?8 5:9E2 9A<B:@238 'K ' & ' S F' ' 5 ; 9E 82 < B3 ?9'82 + 882 +2B G 428 = B4 28828 2A.288 E28' 23 G: ; ; 2 283 G 25 25K 3B2<B25 53' 2 B:'253B2<B25 53 283 :4 23 M G3:98+28 93B28 23 8 58 .2882 2A<:8G G +29B8 + J928 # ', ' 2 <B 5.2 G3 3 839< 42 23 ; <4B 3B .2 253B2<B2K 5 532 G &2A.G8 ? Q' < # 'E 2'LL 9 ; 8.9* + 5 23 <B 8 G8:+9 ; 253' # B4' 9<BG8 428 2 ; ; 28 25 3 4& ; :9B23 42J' 532B 2 &43 3 95 @2952 G: ; ; 2 253B2<B25 53 23 4 J52 42 & 33253 :5 4&952 @:+ 2 2 ; ; 2 ; + ; B 42 7 ' ! '7' + 42* E 253 253B2<B25 53 8 58 448 38 23 3 < B ; 9E 82 =:532 @'@' :588' ' E' 2332 :'2 ; &'3:5* @:9B8 B2549 3BG8*<29 253B2<B25 53 <B48 428 2 ; ; 28 '1!- ' '
* '# 'S]8' # B4 8 23 253B2<B25 58 ' "N ' 2 3:93 .2B2= 2B 25 .2 32 ; <8 ; &2+ :B2 R >2 98 = 83 8 .= 9A 23 253B2<B25 58 ' " ' <##' " ' + [2952882'LLAE]8' # : ; ; 2 B2<: 4 5:5 253B2<B25 53 $ '@! !-'N"0
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, - # 9 > "
3 ! ", : . , Q &/ Q 5*3B2*<B *3 /0 2 #4 2
<B 32B B . <B:?92 ; 253 ?92+?9: .=:82 95 93B2
+ 93 8&253B2*<B 32B 428 R29A 82.:549 B2P 93
8&253B2*4:552B 952 42 82J9 B B0 $
"N 3 +2 3B :*42 +:9E28 89B 55 28 $9 0 3:9B 3:9B
; 2 ; :B4B2 .= B5 280 58 +29B 9B29B 82 ; G+2B3
8&253B2*<B 32B +95 ?92 4253 ?9 +29B <9 32832B0
3388 . 0 Y
- (! 53B20 23 <B 32B
3 0 Q 5*3B2*<B 0 <B *M&/0 "
4&253B2<B254B2 LL I $9D:5 .: ; ; 25. B2
.:5?9 32 42+ 2B82 253B2<B 82 < B +2A 54B2 B 3*
?9 0 <B 8 < B3 2 53B2<B 8 < B 95 E J:9B29A 4*
E2B8 3B LL ! + 42 420 <2B.+98 53B2<B 84&95 3:B*
3 .:+ 8 +8 42 ; 29B 253 .: ; ; 2 253B2<B 8 42 +29B8
; 2 ; GB280 23 &2552 ; 89BE25 53 52 +28 B E2 ++ 3
?9&25 +29B 8 53 42 5:9E2+28 G+2889B280
U 1 CN 93B2 ?92 + J:9332 & E 3 <B 8 E :+2 ; *
; 2530 95 BG9 ; 3 8 ; 2 +2 325 3 253B2<B 8 42 3:98
828 ; 2 ; GB280 2 0 " : LL B 2A325K
8:5 + 25 42 B <B288 5328 H 5?9 39428I 9 89@23
4&952 .:+:5 2 ; :42 ; 2 23 42 + ; 52 ?9 283 4 58
8:5 < R8 ?92 8 < 9EB2 <23 32 532 25 283 3:932 25K
3B2<B 820 = 9 1 , / " 4 . "CC LL J
23 ; + B2 ; 2530 82 4 3 4&95 =: ; ; 2 ; 2 ; G BB 88
42 8 .:5325 5.2
Q 5*3B2*<B *M&/0 LL 6 2882 5
:B ; ?9&:5 ; 23 2A .93 :5 .=:92B4 58 952 25K
3B2<B 82 8<B 3 4&253B2<B 82 $9 54 +28 <+ .28 8:53
<B 8280 + 5&283 <+98 32 ; <8 4& E: 8 B2.:9B . 9A 25K
3B2<B 8280 8 A / > 3 8.:53B2 95 3RB 5
253B2<B 82 .:5?92 .: 1 7* ! :5 253B2K
<B 82 283 89B2 23 8 <2B32 5 G+20 5 (! 0 N
:580 4 28820 + 258P 23 8 B8 42 &253B2<B 820 2*
<:B3:58 ! 4 2 952 B52 < ++8 8:9 ; 820 5 :380
4&:B0 0 N >2 ; 2 <+ 8 32532B 428 253B2<B 828 = *
8 B4298280 @(++0 " 2 + :5 4 58 8 3 32
E 3 952 253B2<B 820 5 "7 $9 <B *
E:R 3 42 <+98 +: 5 23 ?9 4:55 3 428 ; :R258 <+98
8 B8 <:9B E 32B +28 5&283 :5E 5 2538 4:53 +28 JB 5428
253B2<B 828 8:53 25E B:55 28 >2 9 &25*
3B2<B 82 ; 4 ; 20 283 3B 5J2 23 8:94 520
F $92++2 253B2<B 82 . <:9BB 3 3B2 :B*
; 2 & / 0 C LL 2 4 3 4 58 95 8258 5 +:K
J92 4&:< B 3 :58 ; + 3 B28 : ; 2 3 3:98 +28 @:9B8
42 <+98 JB 5428 253B2<B 8280 9 0 M 28
3: 2 8 E 253 3 ?92+?928 253B2<B 828 .:53B2
= + <<20 ?9 +29B E 253 882M B 9880
> , / 3 E9 0 < ""%0 4 58
+ 82 5G+2 ?92 +28 JB 5428 253B2<B 828 8: 2530 < B ;
5:980 <= 8 4 . +28 ; 252B ?92 .G2M +28 5. 258<
:5 52 <293 J9 B2 +28 . .=2B0 C < .=
" :98 3B: ; <2B 4 58 5:8 253B2<B 8280 &283 ?9:
5:98 8: ; ; 28 89@238P 2 ; 3 5 @2 8 428 <B:@2380
3 +2 +:5J 49 @:9B 428 8:33 8280 9 J ,
3> *4 H 53B2<B 82 54983B 2+20

[illegible]

[illegible]

I: \ I: I:

4W ; B 2' :B4 J2<+ .c 253B2 +28 8 G:B48 4&954U_*
3 2:3'LL?7' 7#' 28 253B2*8 G:B48
' '<- # ' 23 &!#"
' * 'Q &/ Q 5*3B2*8%*M B/0 '# ' 2 8
8 B &95 & 93B2
-' (' ! 68' &253B28 8 B0
' '<- # ' 23 #
%' * 'Q &/ Q 5*3B2*8 *+9*W/0 5 # ; ' 2
8 +92B &95 & 93B2' 8 &253B2*8 +9 B253 25 82 G 8 530
0 D ' , ! ' A0 8
-' # 'S 6 8' !' 42 2E2B8 ; 83 < 24 ' 32BB20
23 3:98 82 ; G+ G+2 ; 2530 <:9B 8&253B2*8 +92B 23 . B28*
2B0 S0 0 "
' '<- # ' 23 8 +92B
j' & $ 'Q &/ Q 5*3B"*8\B:*e/0 W'
#*a' &28.B:?92B &95 & 93B2' H 28 =R<:.B 328I B*
4 533:9@:9B8 & B B: 4 89B +29B8 E 8 J28 @ 95280 3
52 8&253B&28.B:?9 53?92 < B 42E:3 :50 :98828 4&95
8 53 4N8 B 42 B2 428 9B54528 8 3 .= 2530 4 *
8 253*+80 42 J J52B 4 58 +W9B8 @29A :9B +28 < 9*
EB280 5:5 < 8 <:9B29A0 :7 ' :5Q28Q NC /0
.34 4 58+2 1& 7#' !/# & ' D 55420 50 F
' '<- # ' 23 #!=7 #
* ' Q &/ Q 5*3B2*82*\:9*B B/0 9
# ' 2 82.:9B B ; 9392+2 ; 253' +8 82 8:53 253B2*82*
.:9B98' +8 8& E 5? 253 ?9 54 +8 E:9+ 253 8&253B2*
82.:9B B0 7 'U'1' %' '4 58
-' # ' !J ' :B8 +28 .:B<8 42 J B42 B 5.: 80
8&253B2 82.:9B 580 +28 ; 28+2B253/ 25 392B253 89B +'
<+ .2 8: A 532*8 A0 ? ' K ' ; 0 " N
-' (!'<- # '23 (!7##
%' * 'Q &/ Q 5*3B2*84*49 *B&/0 5'# '
2 8449 B2 &95 D 93B2
-' # 'S 0 ' B .= 8.95 :B28 52 B28< B2 $92
B 942 23 ?92 ; 28.= 5.234 3 <:9B +2 J 5 :5E293
&253B2*8249 B20 @' '
-' (!'<- # '23 "7 #
3' * ! 'Q 5*3B2*82* ; 4/0 E' ' 2 ; 2B
253B20 4 8<2B82B 253B2
-' # ' ! 68' 2 ; :.B 3980 B ; 25 428 ' :53
3352 :B ; 2 4&28.B B2 4:9G32982 25 89G83 5.20 23 95
42882 5J25?92B 53 <+98 3:83 ?9& 583B9 8 530 25.:B28
?9& +8 253B282 ; 253 +29B 83R+2 42 . 425.28 4:J ; 3 8*
3280 # ' 0 " ' ' :B ; 2 95 G 3 ++:5 42 3:9328
828 < ?9280 253B2*82 ; 4 42 3:98 828 ; :9 ?9238 23
4& 93 53 4& B?92G98 2B80 ? ' K '+90 "%
' '<- # ' 23 #- #
3' * 'Q &/ Q 5*3B2*84*B4/0 E'# ' 2
82BB2B B4. <B:?92 ; 253
-' # ' ! 68' :9@:9B8 +28 G2++28 5 4280 &25*
3B2*82BB 58 < B +28 ; 580 +: 5328 E22 +28 8R+E +580
0 N%"
' , '<- # ' 23 ## #
' * 'Q &/ Q 5*3B2*8 B*E B/0 W'#8 ' 2
82BE B &95 & 93B2' 28 82 8:53 253B2*82BE 2 : ; ; 2
+29B8 5 4B438 43 253 4J 9A0 23 ?9& +8 <:9E +253
8&253B2*82BE B <:9B 82 E25J2B0 !]0 ' '1 N
#7 ' 70 < B30 + EB2 0 <' F
* 'Q 5*3B2*8:+/0 8' ' 2 ; 2 4& B.= 32.*
+9B2' :J2 ; 253 <B 8 89B + ' = 93298 4&95 43 J2
<< B32 ; 253 253B2 +2 B2M*42*.G 98842 23 +2 <B2 ; 2B
43 J2' :J2B \ &253B2*8:+' 2+9' ?9 ' E 253 .:9*
.=2B 9 :9EB2 4 58 95 253B2*8:+0 ' ' '
>2 98 = 2B 25 2B ; 42 4 58 ; :5 253B2*8:+ 952 G29B2
23 42 ; 2 E2.' !' 42 ! 9+2EB 2B0
7' "7(" '@! '3 E0< 'F70 4 58<:: 8'@L :5*
4B25.2842 D253B2*8:+0 .:5 4B25.28 58' 4 328 < B.2
?9&2+28 82 325 253 .=2M & GG4 + BR0 +:J4 <+ .2
2544 ; 2 \ 95 253B2*8:+0 23 :\' :5 8&:..9< 3 42
?9283 :58 ; :B +28 23 <:+3 ?9280 9 .: ; ; 25.2 ; 253
'49 AE 90 8 \.+2 'LL 9 <+9B' 28 253B2*8:+8
-' !' ' 58+28?9 3B2<B2 ; 4B2844 3 :584 8:5
.3 :55 B20 & . 44 ; 2 4.B E 3 .2 ; :3 8 58 3 B23'
253B28:+0 LL ' 93B2 : 8 .2 ; :3 8&4.B E 3 253B2*8:+2
23 43 3 49 4 ; 5 5 +2 B2J J5 ' 8:5 253B2*8:+20
! 'H# ' "
' '<- # ' 23 !
' * 'Q &/ Q 5*3B2*8:9* B B/0 5'#"
' 2 8:9+ B B B4. <B:?92 ; 253
-' # 'S 6 8' &253B28:9 B B0
' U ' 53B20 23 !7 ##
j' * 'Q &/ h 5W3B2*8:9*2*E4/03/'# '
2 8:9+2E2B 95 & 93B2
-' # 'S D8' &=: ; ; 2 23 + ' 2 ; ; 20 8&283 538
2 ; GB 8848 3:9@:9B8 42 3B: 8 < 8 25 3B: 8 < 80 3 53
?92 + ' 4 582 49B20 52 :53 ?92 3:9 ; 2B0 E B2B0
8 253B2*8:9+2E2B 23 G:54 B0 6 ; ' 'M3
' '<- # ' 23 !7 5 #
' * + 'Q 5*3B2*8:9B*8 /0 ' ' &28*
< .2 ?9' 283 253B2 +28 429A 8:9B. +8
-' (!'<- # '23 !7#
3' * 5 'Q &/ Q 5*3B2*8:9*32*5 B/0 3/'
' 2 8:9325 B &95 & 93B2' 9& + 93 4:552B 9A

G:58 <:9B 8&253B2*8:9325 B 2 32 ; <8 42 82 B2 ; 233B2
23 42 82 B495 B0 1 &!-'# ' ' 5 .: ; G 3 49B2
25.:B ?92 ; +2 93B28 89BE 255253 3 .23 25.= 3*
52 ; 253 4:53 +8 8&253B2*8:93 255253' 3 95 .2B.+2
42 ; 9A ?9' 52 8 9B 253 5 B0 5'< ' ' '
28 4 + 4B25328 ; 5 4B28 4& ++2B \ E:98 H 2910 :9
<+9343 42 E:98 3B:9E2B 25' ; : 0 8:53 + 428 23 8&253B2*
8:93 255253 Q' <B ' C"
-' # 'S D8' 3 94B: 3 @2332B <B48 29A E 5J30
; +2 .=2E 9A0 < B 28. 4B:58 8&253B2*8:98325 5M0'
$ '
' '<- # ' 23 !7 - #
3' * 0 'Q 5*3B2*89 *E 0 E 2/0 ";'
$9' 52 82 89 3 < 8 4J +2 ; 2530 ?9' 283 253B2.:9<40
82 ; 4 42 E B 3 :58' & 82 23 &2559' 42 + ' E 2 53
+29B .:9B82 253B2*89 E 20 ' '"' :3B2 8:B3 25
H42 5:8 .3 :58I 44<254 8' .:9B82 253B2*89 E 2 2
E 0 5:5 <+98 ?92 5:980 @ ; 8 4&95 ; 4 ; 2 < 80
' ' :+4' 0 "N' : M2 +983B28 23 <+98 :53
B:932 89B 3 ' E 2 2 8: A 532 8:+2 +8 + ' .:9B82 253B2*
89 E 2 2 3& ' < 8 E9 J:G32B 95 583 53 42 B2<:80
'0! ' ?A ' AA
* 'Q &/ Q 5*3B2*89 * B6/0 '# ' 25 B
\' + ' 89 32 95 42 & 93B2' 28 @:9B8 23 +28 59 38
8&253B2*89 E253' ' ; :B3 23 & BB E42 8&R' <:9E 253
253B2*89 EB2 4& 948'<B480 ' '"7'1 "' 3 5:98
E2BB:58 3:9@:9B8 8' 29 +2 + 882 E EB20 5 .= 5J20
95 B2<253 B0 95 < B4:5 8&253B2*89 EB20 5' +:B2
#! '50 N' 2+8 ?92 4&952 ; 2B J342 5 E: 3 +28
:38 8&253B2*89 E 538 2 9 B <B\8 9 JB4 428 E2538
3 52 325 B @ ; 8952 88 2332 BB43420 '?- /'
50 "
-' # 'S5 D8' 3 25 .2832 ; 5 2B2 42 <B:2E2
2:5E 253 + 4298+: A 328 ; : 580 +' ?92+ 8&253B28 E253
8 58 B 2B 28 42 ; 5428 ?9'+:B 8953 23280 6'
AAA A0 %' 'S D8' 2 + ' .:5 2B25.2 :5 E 53 9 G <*
328 ; 20 23 + ' B: 52 293 <:9B < BB 5 +2 E .2*B: 23
<: ; <28 23 283 58 8&253B2*89 E B253 @98?928 9 ; K
5 J20 ' 383 0 "7F
' '<- # ' 23 7 5#
3' : 8 , F , ! , ' Q 5 3B2*89B*<B 5*4B&/'
0 ' 9B<B254B2 \ 42 ; 'LL O &253B2*89B<B25*
4B20 '# ' 2 89B<B254B2 ; 9392+2 ; 253
-' # 'S D8' 24 58 ; :5 8\ 5 ; :5 < 9EB2
.:29B 82 < ; 20 5332*89B<B 8 42 @:R2 23 42 3B 8328820
, ' "%N' &283: 3 9 <: 53 49 @:9B $9 54 3:93 25*"
82 ; G+2 :5 E2 +2 23 3:93 2582 ; G+2 :5 4:B3 &95 .2 +
253B2*89B<B 8 49 =2B2 42 + ' ; :B30 5'C N
' '<- # ' 23 7# # -"#
' 'Q 5*3B2*3 4+&0 A' ; :9 ++428/0 ' '
0 2B ; 2 42 JB E9B2' 2 \J\B2 253B2 4& 93B28*
<+98 :B328 'LL =2M +28 JB E29B8 89B G: a0 3 +2 <+98
5:9BB 2 4 58 .2B3 58 254B: 38 ?92 4 58 +2 B2832 42
+ ' +:5J929B' LL 6 2B ; 2 42 4 582' 8 ?9' 82 *
8 3 25 @23 53 95 < 24 \' + ' <+ .2 42 93B20 23 ?9'
283 =:B8 4&9 J2
-' (!' :R' , :
* 0 Q 5*3B2*3 *++40++3:0 ' ; :9 +'
\28/0 # ' ' =2E + 253B2*3 ++\
/ , :"#*@@ , 'Q &/ Q 5*3B2*3 * \0 A' ; :9 \2 0
23 5:5 5*3 2*3 *R\/0 5'# ' &253B2*.:R<2B' 2 .=2K
E + 8&253B2*3 +2 25 ; 2B.= 53
-' # 0 A E6 8' 4E 82 ?92 +2 .=2E + 52 8&253B2*
3 2 42+ @\ ; G2 42 & 93B2 +2M H.43\I 0 C - / #'
50 ' 'S +0 8' 3 \' : ' +2 .:B42 9 253B23\ +2B '
H<: 53 4& 532B82.3 :5I' + ' + J52 3B .\20 \' 82B ' <+ 5*
322 + ' .B:.232 :9 + .=2E2+920 : ' ' "N"' '
JB 542 .:5 98 :5 42 < B:+280 < B ; + ?92+2 :5 8&25*
3B23 +2 H:582 .:9<210 '1 '#' 0 <' "F0
4 58
' 53B20 23 #
' 'Q 5*3B2 3 *++9*B&0 ++ ; :9 ++\280
23 5:5 5*3B2*3 *R9*' 0 8' ' +2 89B2 ?92 82 3
9A @ ; G28 95 .=2E + ?9' 8&253B2*3 ++2
-' # 'S 0 8' '<: .3B 52 23 42E 53 + BJ20
= 932 23 E 5.\2 \5 42=:B80+ ?92+2 . 982 JB 54 25*
3B2*< 8234283:9 ; 2 &253B2*3 29B20 :'- ' M
-' (!'<- #) #
V WW" , :"# L , 'Q &/ Q 5*3B2*3 *+:*5\/0 '
' 2 3 + :552B &95 & 93B2' $9 54 +28 ; +=29B8
: ; ; 25.2530 +8 8&253B2*3 +:55253 7 '4 58+2
(' " ' <:+ E
' 53B20 23 !- - #
j' D 'Q &/ Q 5*3B2*3*3\/0 5'# ' 2
3 32B B\. <B:?92 ; 253
*** # 'SED8' 2 E: 3 253B23 832B 9A 28<\28 95
88 93 8' JB 540 23 :53 3 53 25 <29 4&G29B20 ?9& +
5&R 293 .2++9R 4:53 8 5J 5& 88 83 H52 8:B3 3I 233 <+9*
8 29B8 + 29A0 0 # !# ' 0 0 W+
' '<- # ' 23 #
* ! 'Q 5*3B2*3 5/0 ' ' 532BE +2 42
32 ; <8 253B2 429A .3 :58' :93 283 \' .B 54B2 4 58
.23 253B2*32 ; <80 #' ' 2 ' 2++ 2B82 82BE 342

.23 253B2*32 ; <8 <:93 B2 \ .B B2 9 B:' < B 3:98+28
\E\?9280 : 'M* = F' 23 253B2*32 ; <8H+&253B22
49 B:' 4 58 8:50. G 523 <B\8 8 '<B \B2I \3 3 .2+9'
428 94 25.280 ?9 54 +2 B:'25 ..:B4 30 %*D'3
'&&(!"+4&*-'" 0!((-' 0#."';-0&"+"/%' /%'"@%"+4('-&
0$'-.0
-' # ' 6 !J 8' : B2 23 ; 5J2B + BJ2 ; 253 49
8:9<2B 42 :29A ?9 0 253B2*32 ; <80 9' + 3 82 42E *
8: 2530 \ 8:5 JB 5"<B2@94 .20 ' K !7#'
-' '> ' 23 "
!" , " !"'Q 5*3B2*+*52* ; 5/0 ' ' .K
3 :5 42 <:9BE: B \ &253B23 25 ' ?92+?9&95 :9 42
?92+?92 .=:82' :98 ; 2 4 B2M ?9&\' .2 .: ; <32*+\
E:98 52 42E2M B 255 \+ +9525 9 8:+2 +0 < B 2 ?92
.2 ?9& +8 3:9B5: 253 9 42+0 +8 52 +2 :53 < 8 <:9B
& ; :9B 42 E:98 +8 +2 :53 <:9B +2 G 25 23<:9B+&25*
3B23\52 ; 253 42 &95 E2B80 ' 9 ' '1 '
'# + , ' E 0 ' &253B23\52 ; 253 828 <+ 8 B8
52 .: 32 B 25 \ <2B8:5520 ' 0 " ' .= *"C'
'B28< B 3 :5 5&283 < 8 ; : 58 5\.288 B2 \ &253B23*
52 ; 253 42 .2 290 . # : ; ; 2' &253B23\52 ; 253
428 8:+4 380 ' 9 * ? N"' \8 +:B8 ?9&95
254B: 3 H42 '+2E\2 42 + ' : B2I 82 4\ ; 253 H4\3*
B :B2I' 5 +2 B\3 G+ 3 3:93 \ &=29B2 ' ; : 54B2
GB\.=2 5&R' 42 ; 29B2' 58 ?9&:5 R' 3:9.=2 5.28*
8 ; ; 2530 3 <:9B .23 253B23\52 ; 253' 5 ?92 :G8*0
3 42 \32+8 B E J280 = .95 '8:5 4\< B32 ; 2530 '
B '3'! '<' '24 3'R $ "' +: ; :5 4:5*
5 3 \' # B ;' <:9B &253B23\52 ; 253 42 8 ' ; 8:5
E 5J3 ; +2 ; 289B28 42 B: ; 253 23 E 5J3 ; 289B28
4&=3 +2 3B\8*<9B20 8 ' '1 ' ' 0 E0 ""' & *
; 3 \' 4:' .23 :5.+2 52 E '< 8 3:932 829+20 + R 93
42 &253B23\52 ; 2530 8 E' % N0LL ' ' E 2 ++ ' &:5 52
4 3 <+98 J9\B2 ?9:' 253B23 25
d.' 6 ' !J8' B ?9:R + 5&R 293 <: 53 42 J:9*
E2B52 ; 253 5'253B23252 ; 253 25 +29B8 J2580 % '
"" N' 5 8< J52 E: 3 3:9328 < B:+28 4& ; 3 \ 23
4&253B23252 ; 253 23 <B28258 < B 3:930 42 3:98 .:832M0
' ! ' '**G/ 6 8' 258 4& << B25.20 23 J258
4&2532542 ; 2530 2 G:552 JB .2 23 4&253B23252 ; 2530
2JB 54G2 93\04&=:552832 ..:983B2 ; 2530 'A S
, ' ' ' , ' ' '4 58
-' '>
'Q 5*3B2*32*529B/0 ' ; 'LL 6 2K
+9' ?9' 253B23 253' :932* 29 23 253B232529B 42 82K
4 3 :58 'HL 29 98 \25 .2 8258' 0 5 ; 9E 82< B30
.2+9' ?9' <:9BE: 3 9A 4\<25828 4&952 ; 3B2882'
5 253B232529B 42 ++28
'O f (' *!" &"(+"(260/%"(4'0&-,!"(
#*/%"(% -%&"' #-% ?"'."-&&"(0!%"!" "%"/%'"%"/"!'
' 4' ' $$ '
-' G3' >
0 'Q 5*3B2*32*5 B/0 @&253B23 2580 5:98
253B2325:580 E:98 253B23252M0 +8 253B23 255253
@&2#3B2325 8 @&253B23 58 @&253B23 254B @&253B2*
3 254B 83 253B23 2=80 253B2325:58 ?92 @&253B2*
3 25520 ?92 5:98 253B2325 :58 ?92 @&253B23 5882
253B2325 53 253B232590 E' ' LL ' 9 8258 <B:<B2
?9' 283 4& +29B8 <29 98 3\0325 B 253B20 A2B0 889*
@233 B 28 4 E2B828 < B3 28 4&95 3:93' 2332 < \.2 42
G: 8 253B23 253 3:932 + ' .= B<2532' LL 2B ; 2 42
; \3 2B' 25 B 952 .=:82 2B ; 2 4 58 + ' 8 39 3 :5 : '
2+2 2830 <254 53 ?92 &:5 3B E +2 9A 93B28 < BK
3 28 42 &:9EB J2 'LL 0 25 B 25 G:5 \3 3' 53B2325 B
E ;'G\3 ; 2530 952 B:932' 53B2325 B 952 ; 8:5 25
& G825.2 42 .29A ?9' &= G 3253' 28 B 5? 8 5&:53
8: 5 42< 25 23 52 B28<2.3253 9.3 5 ; :59 ; 2530 +8
8:53 3:93 29 <:9B 253B2<B254B20 23 52 8 E2 3 B 25
5 B 5 '253B2325 B0 @'@' ' E' LL 25 B
89B < 24' 53B2325 B 952 B ; \20 428 :B.28 .:58 42K
B G+28' ' 0 ! 5325 B 4 58 22 ; \ ; 2 \3 30 B254B2
49B G+2' 28 E283 +28 253B2325 253 +2 29 8 .B\'
53B2325 B & G:54 5.2' 28 B .=28828 253B23 255253
&:BJ92 +0 253B2325 2M 4&25.258 .2332 8 532 9 ; \20
#' ' , '50 "' 5 52 893 < 8 +:5J32 ; <8
O ; 2 2332 2+:?925.2 253B2325 B0 '% '
S 0 C' &952 J92BB2 8' +:5J92 253B2325 B +2 B28320
'& ' 0 ' ! +2 =: 5 93 .= 88\2 42 + ' .:9B0
23 82 B23 B ' B 80 : ' 2+2 253B23 53 3:9@:9B8 +28
G:53\8 ?92 ! :582 J529B H+2 +8 42 :98 S I V
E 3 <:9B 2+20 <"' '#' , / '<'
4 58 B 'LL &253B2325 B + ' ; 50 .:53 592B \
325 B + ' ; 5 J +2 3 4B: 32 < B &2A2B. .2' B2
428 5528 <:9B 8&253B2325 B + ' ; 5 LL 53B2325 B
952 .:BB28<:54 5.20 \.B B2 23 B\<:54B2 < B 83*
3B28' ' 53B2325 B .: ; ; 2B.2 E2.'?92+?9&950 \3B2
25 B2+ 3 :58 89 E 28 E2.'+9 ' $9 .:5? 2 253B23 25*
4B 3 E2.' 5:8 255 ; 8 5 .: ; ; 2B.2 82.B23 K
3 + \ 8:5 < R80 ' 9 ' ' "' LL :9BB B0
B2< 33B2' :93 .:53B G92 \ 253B2325 B 8:5 +98 :5
53B2325 B 828 <258\28 R 828 B\E2B 28 ; \4 32B0
\E2B' 30 :9+ 53 +2 < B 9 ;' 42 828 <+ 5328 +29B 280
+32B 25322325 B 828 4:9.28 B\E2B 280 '@ 'C)

' !' ' 82 4 3 988' 428 <2B8:B ;28 .=2M ?9' :5
5:9BB 3 .2B3 58 8253 ;2538' B:<B2 253B2325 B
+28 < .=29B8 4 58 32 B8 448:B4B28
R' '<+9< B3 42 229A ?9' 5:98 253:9B253 5:98
253B23 255253 4 58 428 <B4@9J486 ' ' 32 B 8:53
.: ; ;958 23 ?92 8:9E253 +8 5:98 :53 4:55 8 7 V
" '& ' '<258 9 "' LL 53B2325 B ?92+?9?5
4428<"B 5.28 253B2325 B 42 G2+28 <B: ;28828 32
3B: ;<2B 25 +9' 4:55 53 428 28<"B 5.28 428 <B:
;28828 ?9:5 5 '< 8 53253 :5 442 2.392B' 28
B253 58 ?92 RBB=98 253B2325 3 4428< B 5.2
3 ' F' ' 2B;8 42 ; 5 J2' 53B2325 B 95 .=2E +
2A. 32B 42 ; 5 GB2 ?9 .:582BE2 952 32882
GJ +2 4 58 8:5 +9B2' H %] :9B5 B .2 ?9' 283 5G
.288 B2)' + 4G<2582' 53B2325 B 952 5: ;GB2982
; +2' 53B2325 B 8' ; 8:5 89B 5 < 24 .:5E25 *
G+2' 53B2325 B 952 B ;22 952 J B5 8:5' 53B232K
5 B ;3 JB 543B 5 95 5: ;GB29A G?9 < J2' +8 H328
;2 ;GB28 49' ;98G2 \' +2A 54B E 253 9528 +2
:' G ; 5J2 253 3:58 2582 ;G+2 9A 4G<258 49
<9G+ .' ?9 3328 253B2325 3 :B3 G 250 ' '
:>, / '3'E < ' 4 58 ' LL 53B2325 B
428 ; 3B28828' 2B3 5 ; B?9 8 253B2325 3 "'
B 'C .' 28 + G2B3 58 253B23 255253 .' 95 5: ;
GB2 5 5'42 +328 42@: 2 C'= '<2B6' A' 2
B2832 ;2 82B3 "' 253B2325 B 428 + 28E: ' "
:9B 352 BG.: ;<2582B 42 ;28 8: 58 G 25 8 538 '
25 253B2325 3 952 93B2 H : ; ;2 "' ;28 4G<258
$ " ' :3 ' ' ' '0' * G8:+9 ;253'
9@:9B44=9' :5 253B23 253 82 82B 3*:5@ ; 8 ; K
J 5J ?92 +2 B 5. 8 42E3254B 3 8' =9 ;G+2^ :5
<BG3254 ?9 R \'<BG8253 4 58 B 8 <BG8 42 3B: 8
; +2 28 253B2325928 ! 1' '0
3' 53 <' YY' 4 58 ' LL 94:R2B' $92+2
=:532 '$92 ;G ;2 < B ; '5:98 :+ ; B 253B23 2552
$28 89@238.:BB: ;<98 E25498 "' 828 G 25 +8 9
9 ' "' LL N6 B+2B \?92+?9950 .:5 GB2B 89B
95 89@23' # 2B 4 58 8' G2+2 =9 ;29B 2+2 253B23 253
32B2 ' ' ' ' ;' :98 E:R2M 2+2 E293 ?92
@2 E:98 253B23 2552 'A ' ; ^' :5 ; 4 ;8
44<:3 A 4:53 @2 E:98 253B23 258 ' ' 'F'
53B2325 B 398 4 58 95 93B2 +9 * ;G ;2 '
' ' .:9B93 42 828 29A 253B2325 B + 'B2 52 "'
A '5 F' 283 44 5J= 25 ?9' 8: B2 "' ;28 R29A
9B 2BX 542 23 32 5\2B\2 253B2325 53 .= +2
< 3B2 5 .GWW' 42 ' , ' 5 3B29E2B'
882M "' 82 ; :B3 2B 25 253B2325 53 .:53B2 8:5 J:43
328 <2B8:5528 4:53 :5 52 <253 82 4G B2 # '
3'AE+@ < ' "N' ' J'H :+R29.32 "' 9+ 52 >252 ;G
<B 82 <: 53 E:8 <+29B8 5'E:3B2 : ! 8 42 ?9:' ?92
<:9B E:98 5:3B2 ; :9B ; 253B23 2552 >2 52 E:98
.:55 8 <+98 8'E:98 5G328 2=BG3 2552 '0 4'
' F ' C0 253B8325 B 2' B4[+' 3B2 32590 889@233'
B .<B:?92 ;253' $28 429A < G.28 42 G:32 82=3B2
3 255253' LL J' :52 3:9328 +28 .=:828 43 53 . 9
8G28 23 . 98 5328 4G28 23 4 5328 ;G4 32 ;253
23 ; ;G4 32 ;253 8253B23 255253 < B 95 + 25 5 *
39B2+ 23 58258 G+2 ' 258G28 B3'N' LL 3B2
.:582BEG' '8 J2882 82G3B23 253 < B 28 G: .8 .:5
82 +8' 2332 2 ; ;2 8253B23 253 3:9@:9B8 B 3.=2'
'F' 2 :9B5 B 42 .=:828 5G.288 B28' 'J J52 42
?9:' 8253B2325 B' 28 4: ;283 ?928 8253B23 255253
42 + 5J2 23 4= G38' LL 253B2325 B 49 @29 R J J52B
42 ?9:'E EB2'L@ J' 253B2325 B 42 .= ;GB28 825
B2< +3B2' J 253B2325 B 82 ; 5325 B25G3 3<:9B
52 < 8 <2B4B2 + '8:9<+2882 42 828 ;2 ;GB28 <:9B 52
< 8 :9G 2' .2 ?9:5 8 3' 253B2325 B 4 58+28 ; *
3=.5 3 ?928 4 58+ '+2.39B2 49JB2.' LL :5E2B82B'
95 .:29B B4253 253298+ 29A' 5 ; 5389 3952
G2+2 ! 32 495 @ +:9A' :4 29A 'E J + 5.2 G32B
52+2 3 ?9 + 52 <293 ?92 428 R29A 253B2325 B
E2.' 2+2 Z<2 ' 7' '+9' <B 3 988' 25E 2 42
E:R J2B 23 4 +2B < B +2 ; :542 8253B2325 B E2.'
.29A ?92 :9 <'+ 3 <= +:8:<=28 ' '9'
4 8.<2' :98 5 ; 3 EGB 3 G32 ;253 "' 8253B832K
5 B ?9 E2:'2+2 %]' "' ' 'A ' 'A
3' '<' A' 4 58<: ' 253 2325 B 42 29
< B+2B 42 29' LL++ 253B2325 B E2.' 29 <2582B
\ 29 ;G4 32B +28 .=:828 4 E 528' LL 253B2325 B 42
828 <258G28 E2.' 828 <258G28 ; ! 32B BG+G:G B'
2 .: ; ;25.2 ;253 42 = E2B ; BBG3 '25 95 ?9 B
3 2B : 52 3B:9 53 9.952 .:5E2B8 3 :5 ?9' ;2
4 E2B333@2 42 ;29B 83:93 32@:9B 25 2B ;G 82 + 4 58
95 <:G32 :4@ E 8 +2 +: 8 B 42 ;253B2325 B 42 ;28
<258G28 " 'A ' 3 "' 3 52 <:9BB *@2 9
;:328 4 54 42 8' JB 548 ; +=29B8 !253B2325 B ;:'
82 42 E2.?92 ;284:9+29B8^) '& 7' E "
-'# !'W >2 ' 42 E:3B2 < B3 +:5J32 ;<8 253B2
3 ;9 .:33 ' G4 5 4 3 G 25'@2 +9' ' < B32 42
E:3B2 < B3 :9 G 25'@2 ' 253B23259 42 .2 ?92
E:98 ;E2M .: ; ; 54G 42 +9' 4 B2 42 E:3B2 < B3
; 8' .;' /' <293 'B2' '@2 ' 253B23259 42 E:3B2
L6B3 & '# ' , ' ' ' ' 2332 4G

Y ' F ' 52 #$ *

.8 :5 42 . 4G ; 2 283 3B:< B J:9B2982 23 52 <253
3B2 4:<3G2' T b
-' ' ?-I' (' : ;253 <:B:58 253B2B 424258^
28 < 2A H< 29AI 8:53 8' 253B2325 58 $92 5 '<:BB:58
;23B2 328 < 2M D -' A ' LLAE6 8'+ ?92+2 2 ; ;2
32 <B 53 25 8:5' ; :9B 428:B4:55G2 23 <:9B 253B2K
325 B 25E254 3 23 25J @ ' 42 828 G J928 23 E 8
8.+2 42 8:5 4 3 ; BR ' "' 9 '1&#!-' B'
3 8' 283 ?9 8' ;<:88 G+2 ?92 JB 58 <2B8:55 J28
2582 ;G+2 23 42 82 ;G+ G+2 283 3 82 <9 882:3 +:5J92
;253 253B2325 B 8' 5:5 ?9 + R 3 .=2'< B 428898
3:98 ??' ' B' 53B2325 B + '< A 42 5' <B2.2K
4253 ' 9 ' ' E:98 + B '>2 552332 ?9'E:98
253B23 254B 23 @2' 25 B '25' ; ' .= ;GB2 "' 42B
B 2B2 <2582B "' 29 '1' ' A , 'AAA A' NAE 6'('
5 R'3B:9E '59+2 :.. 8 :5 42 8293B2325 B ; 8 +J+:8
? ' MA' >2 ; 2 89 8 42M 3:98@:9B8 253B2325 9 428
; J 5 3 :58 42 + ' ; :B3 "' '^C' 5' 253B23 254B'
?92 .283 ?92 +:J ?92 <=R8 ?92 "' ' ;Q; ' >2
32J92 "' B23=98 42 5 :9BB B ; ' ;2B2 23 253B2325 B
25 8 'E 2 +28820 "'+ M' 29+A ?9' 253B23 255253
+28 G28328 82 4: GE253 + B2 <+983:83 +28 82B B?925
283B2 2BE 8 5U' 5 "C' 93B2 .28' ; 83B28828 +
253B232 53 2BE + ' "' 5 MB' $9' E:9+4B:3 G 83 B
42 .28 = 83:B28 95 .:B<8 253 2B 23 8253B2325 53
' ; BM' 2<254 53 ?9:5 8253B2325:3 "' H?92 +2
.: ;G 3 82 8:9325 31 ?92+?928 8:+4 38 28. B32M B <
<:B32B253 ?92 E2B8 +2 ?9 B 2B 428 + 58?925238 :5
5 R' 8:3 < 9' 3B:< G:552 ; 52 ' '
3 8.=:3 .2<254 53 "' +28 253B2325 B 25 .2 8:9<a:50
'M $9 + E:5+: 3 ?92 828 24 38 988253 253B2*
32598 H ; 5325981 'K '5'F 28 <2B*
8:552' ?9' 8253B2325 588253 < B + ' ; 5 23 ?9'
8 93 882530 ?9' E B 882=3 ") ' :5328 1 '
283: 3 25 < B42 . 982 42 .2 .: ;G 3 <:9B E:B + R
;28 ;2 532B <B23G 25 3B:< ; 9+E3482 < B3 .2 ; :3
4253B2325 B 89B +2?92+ 93 :54G2 + '?92B2+2 H42
> ; 2 23 + ' =\3 J 2B8 21 " ' ' ;F' 29+A
?9' :53 B2 42 + '+9 ;2 2 4952 + ;<2 R' ;23
3253 42 =9 +2 <:9B 253B2325 B $ '0 #'BM'
+. G 4288? E: 3 G 25 8253B2325 B 42 G:552 JB 42
23 82 .: ;<:B32B .: ; ; 2 + +:3 E2.' 3:9328 J258
? ' '1!#' ! 'N' +M 5 E: 253 ?9952 <23 32
; 8:5 25'+ 'E +2 23 952 <23 32 <:88288 :5 9A
.= ;<8 4:53 +M 8253B2325: 253 "' '0'* 'F'
28 .:8328 E2B8 + ' B . 52 8:53 <+98 253B23 ; 5328
< B2 +2 ;2 3 23 <+98 4 .+28 "' B: ;<B2 '
-' ! ' 53B2 23 3253BP <B:E25^ -# -#Y
28< J5' -# -#3 3 +' -# -#
0 'Q 5*3 2*32*59 592/ < B3 < 88G
44253B2325 B'LL 889@233' = B<2532 253B232592 < B
428 < 2.28 42 ' 8' LL 2B ;2 42 G+ 8:5' 2 4 3 428 .+2 8
23 4 93B2 .=:82 42 ;G ;2 5 39B2 G28 2582 ;G+2 < B
+29B8 552 9A' LL F6 259 25 G:5 G3 3' 28 B ;28
G 25 253B2325928' 28 B4 58 44952 E 832 G325492 23
253B232598 E2.'8: 5 23 952 <B:<B23G ?9' 8 3 <+ *
;B" .2 + , 'K ' - ' <75# ' < ' F
4 58 4** 'LL J' 3 .28G 258 ' 254B 253 495
<29 4428<: B ; :5'" 52 253B2325920 '0 -'
' 2 4 3 428 <2B8:5528 ?92 :5 .:53 592 "' 325 B
25 42 ;G ;28 8253 ;2538' 53B232598 25 +29B8 28<G
B 5228' 53B232592 25 8:5 2BB29B 3 +2 'D ;
' ' 2 4 3 988' 428 8253 ;2538 ?92 :5 5:9BB 3'
+98 :5 253B232592' :9E25 B 3:9@ 9B8 253B23259'
'6 :9B5'428 .=:828 5G.288 B28 "' + 'E 2 5J3
< 9EB28 253B232598 "' =:8< .G' LL 2 ; ;2 253B232K
592 2 ; ;2 "' ?9' 95 ; 53 :9 ; 3 42 ?9:' 8 25
3B2325 B' 52 3 + 2552 ?9' G3 3 253B232592 < B
+2 <B 5.2 9JG52 ' +!7 ' , ' 5 8 3
?9 8< 8 2 G+2E 3 428 28 <:9B G3B2 253B2325928
4' ' '+ '5 YM ' +2 3 < B'G3B 5J2 ?9952
42 ; : 82+2 5:G+2 J J5\3 8'E 2 58'H"' B2 42+'
3 < 8823 2I :5 5 243 < 8 E:9+9 R' .B: B2 :5 2 3
4 32 253B232592 .2 ; :3 253B2 +:B8 4 58+ + 5J92
- ' +!7B! '@' @)1 , ' . 57' " ' 7B)
A!-" ' '@9 5' BM '<'MAM' Q 283 952 2BB29B
49 ; : 58 4 ' +2 AE 6 8 G.+2 :5' '4 3 253B2325 B
952 2 ; ;2 / LL F6 58+ ' ; B 52 +2 32B ;2 -#)
-7 8:<<:82 "' G< 3GG32 7B # ' 5 B + ?92+2 2
4G8 J52 8:3 428 : +2 2B8 2 ;<B953G8 <:9B 95 32 ;<8
9 .: ; ;2B.2 8:3 4282 ;< :RG8 5:5' .: ; ;328 :55G8
23 BGE: . G+28 "' E:+:53G' # G3 3 2582 J52 42E 882 9
9A + B2 23 93 253B232592 "' + '89 32 495' .: ;G 3
5' 283 2G B9B '25' 9A + B2 23 E < 882B 9 .:5 .:9B8
<:9B G3B2 253B232590 'LL :5*253B232590
?9' 283 8 ; <+2 9A + B2 ?9' 5283 < 8 <:9BE9 495
GB2E23 :9 44952 <:8 3 :5 83 G+2
+ 'Q 5*3B2*3 5/ 8' ;' LL E .3 :5
44253B2325 B 42 ; 5325 B 42 .:582BE2B' 2 82 4 3
'GB2'25' .2 8258 ?92 4 58 +2' + 5J J2 G+2EG 23 <:G
4?52' 'E:98 "' ; '4:9+29B :G@23 32BB G+2 23 3254B2
32B52 253B23 25 42 = 52 23 42 < 3 G 'O!

' "' : ;G2 9 .=2B 253B23 25 4952 4:9+29B ;GB2
'K # '+9 C' LL ' 2 ?9' 283 5G.288 B'
<:9B + '89G8 83 5.2 23 +28 93B28 G28: 58' 293B23 25
4952 ; +2 253 GB2' :9BE: B "' 253B23 25 4952
J ; 8:5' :5 253B23 25 82B ' ; : 58 .: 329A 25 <B:K
E 5.2 9' 4 8*@2 .= BJ2M* ; 25 P 253B23 25 93
3BG8* ; 5.2 ' " 9' H ,7 1'&' M
'2B ;2 4 '5 : ; 2'B9B +2' :9BB 39B2 23 8: 58 ?92
:5 4:552 9A 5 ; 9A' 3 :5 44253B23 25 .2+8
?92 :5 4:552 9A GG328 <:9B +28 ; 325 B 25 +29B
3:3' ' F' B3 .9+ GB2 ;253 4G<2582 <:9B = G+2
;253' '4:5523 53\'8:5 52E29 <:9B 8:5 253B23 25'
5 JB 54 88 53 E:3B2 253B23 25 42E 254B 'G2 9 .:9<
<+98 .=2B BB '7 ' , A ' ,'* '3' '
<' "7 4 58 <:9: # ' ' "6 G< B 3 :58 ?92A J253
.2B3 528 .=:828 <:9B G3B2 325928 25 G3 3' 253B23 25
49 < EG' 5 G3 3 42 G:5 253B23 25' LL 2B ;2 42 <:538 23
.= 988G28' 53B23 25 8 ; <+2 3B E + ?9' '<:9B :GK
@23 + '8 ; <+2 BG< B 3 :5 44952 .= 98822 < EG2' 5
3B23 25 .:9B 53 82 4 3 42 3:98 +28 3B E 9A :B4 **
5 B28 ?9' 82AG.93253 5592+2 ;253 4 58 328 33B K
G93 :58 428 <:538 23 .= 988G28 49 JG5 2 23 42
B3 +2B 2' LL G<2582 32 <:9B +28 BG< B 3 :58' 2
G\3 ;253 28342 JB 54 253B23 25' LL% ' :5E2B8 3 :5 89]
95 89@2+ < B3 .9+ 2B' 3E:98 .=2B8253B23 258 ?9' ;2
82 ;G+ 2M 8' 4:9A G 0 - ' 253B23 25 428
; 538 E293 95 2?3 2B 82.B23 '1-- ' '
G 52 ; 25 ' 3 5 82.B23 253B23 253 "' 253'E
F' '<2 52 *@2 E:9+9 +9'<:B32B + '5:9E2+2 9 ; :K
;253 4253B23 25 ?92 E:98 8:9G 3 2M 442+2 $9 2+2
;'BG<:549 325 53 8:5 ?9 53 "' ; : '
' BE ' ! 4 ;2 ; :5 G:B4 .: ; ;2@2 .:55 8
G 25 882M ; + \<B:<:8 3B:9G+2 E:3B2 253B23 25
' 'H # '+9 ' >2 3B:9E ' ?92+?928 J258 495
3BG8*B B2 ;GB 32 $ < B+ 53 428 EB 8 8: 58 4952
_;2 ?9'E3 G 25 B253 3 ;G2B 89B E:98 ; 4 ;2
253B23 25 'C ' ; 'N' 5 8:9 B2 9A 253B2
33258 .28 8:B328 42 .: ; ;G 38 :9BE9 ?5"' + ' <2BK
8:5 2 :5 52 8 33 ?92 < 8 ' 5' E '
G J 32+2 +' 8 .25 .2 28 .= ;GB28 32 B 25 3:93
283 G:5 @2 8:93 2 8 $9 + 93 42 3:93 9A 253B2
33258 ' 'A ' 3 8'@25 .B: 8 82 J529B
253B23 25 H+28GB9 38 42 + ' .:9B 'D # - '
2+9' ?9' 8:B3 42 E:3B2 253B23 25 .:53253 42 8:' 23
42 8:5 28<B 3 283 42 E:98 < B 32 ;253 ') '9'
SG5:<=:5 5:98 ' .:582BEG 95 253B23 ;'42 :.B 32
E2.' 93=R4G ;2 89B + ' B:E 425.2 ?9' 283 95 428
<+98 G2 9A 254B: 38 ?9' 82 3B:9E253 3 : 8' 328 G2B 38
428 5. 258 'K ' -'1<75# '3' B <'
FC7 4 58 ' +8G3 25389B + ' 5 49 B2< 8 23
< B .:58G?9253 253B 5' 424 8<932B ; 8 988 3 3
?9 8 ? < 2B?9B253 +8 +B253 89.2G42B 95 <B: :54
8 +25.2 "' +29B8 GB9R 538 253B23 258 'H'
D 'S "' 283 .2B3 5 ?92 +28 253B23 258 53G
B288 538 23 8258G8 4952 2 ; ;2 42 ;GB 32 8:53 < 82
<B:<B28 "' :B ;2B 95 @2952 G: ; ;2 ?92 3:932 + '
<G4 5328?92 <G +:8:<= 2 428 + EB28' 'S' " '
1!-'5B' 83*.2 ?92 + 3:5 +9' 4 8*>2 5 '< 8 B <
<:B3G 4G32 ;253 +28 253B23 258 42 :.B 32 C >2 52 32
.B: 8 < 8 BG<:54 3* + @2'<2582 ;G ;2 ?92 + ' <+9K
< B3 42 .28 253B23 258 5 :53@ ; 8 29'+ 29 #G *
?- (&' .= 'MB' :5 253B23 25 283 95 G .= 5J2 " !
1!-5 # !-' ' LL 253B23 25 E2.'+ ' ;'
3 8 2 + ' .:5E2B8 3 :5 E2.' 8'<B:<B2 ; J 5 3 :5'
:98 ;2M 253B23 25 42 E:3B2 53 8 2 'H'
"7' '5 ' LL '82 4 3 4 58 32 + 5J J2 ; R8K
3 ?92 428 ;923328.: ; ;95 . 3 458 E2.'+ ' E 5 3G'
$92+28 JB\.28' 2 J529B 52 4: 8*@2 < 8 32 B254B2
'3: ; '829+2 J+: B2 23 ; :5 95 ?92 G 25'^' ! 8
?9' 89 8M@2 <:9B 253B2<B2:4B2 G32E2B ; :5' 28<B 3
@98?93\3:33 253B23 25' ' ' ;3 '5 F' LL 6 K
+253 42 .:5E2B8 3 :5' 2 < 9EB2 28<B 3 42 2 ; ;2 23
+2 82.:253B23 25' ' 'C '5 N' ; ;2 + @ J5 3
"'+'8 J2882 ' ; 5244 95 =GB:8 23 +2 4: 3A 253B2K
3 25 +' 3 3 53 ?92 25.= 532B2882 B 3 95 93B2
<: 8:5 <29 4 GB253 49 8 25 ' ' 'A9 "
< 3B 4 32 ' 253B23 25 .= B ; 53 ' J48' "'
'C' 2 89@23 42 + ' .:5E2B8 3 :5 ;G ;2'$9 8 8: 253
H ;28 3B:<=G28 4:BG5 E 53 3:5 95 ?92 253B23 25
' 'D!#' 'N' 2332 E 2 +2 ; 3G 8 3 E:3B2
253B23 25 ; C '5 ' :98 328 9@:9B4=9'
253B23 25 42 + 'E 2 ' ' - ' #! ' "'
:582BE28 +2 8:9E25 B 495 =GB:8 4:53+ 'G:53G E 3
GJ +G 32 .:9B J2 :B'<9 882*3* + 3:9@:9B8 E:98 G3B2
95 .=2B 253B23 25 ' '+!7 '"'D!7# !-' E:58
5:98 44253B23 25 ?92 .2+9' 42 828 <+29B8^
?-"#' ' 3 .2 3B : ;<=2 =29B29 '?9'8 25 E'
42E25 B G32 ;2 253B23 25 4288 G. 28\'E25 B "'
, &*' 'N' 2 5:9E2 9 .: ; ;2B.2 G 8 3 253B2K
3 25 42 3E +2 'H# ' "' LL F' 3B28 42
.2B3 58 :9EB J28 25 4 + :J928 53B23 258 8< B *
392+8' 28 53B23 258 4 B 8 ;2
' 'O ('' ' (1"(%!#-' ' #" 2 "*/%"/-" "%
' - '

M

@8B42B' 4 ' B 25' 332532B' < B' G:552B' < B:+28' 23' JB *
2 9M' 253B23 25I' 9B: I' <7 ' 8' ' 428 83 ' 4 +2B'
5M' G 5?923M : ' :5' +2' .:5E : 3I' 23' + 88 ' 3:93'
W 3B2' 32+' 253B23 25' 4 ; 8I' 5' 0 # (' " I' ,
-' (! ' <- # #
3 * #' Q ' Q 5*3B2*3 *B)/I' W ' #* ' 2'
3 B2B' B . <B:?92 ; 253
-' # I' ME 6' 8' 28' 28.+ B8' 23' 3:552BB28' 42' B*
3 +2B 2' 42' .= 8?92' .:83' I' ?9 ' 8253B23 B: 253' 5.28*
8 ; 253I'
-' (! ' <- # ' 23' # #
' * ' Q 5*3B2*3 *8 /I' E ' ' 882B' 25*
3B2I' 95 B' < B' +2' 3 889
-' # ' S ' 8' +92.' H+28E2 528' 23' +28' B3 2B28I'
8253B23 88253' 2582 ; G+2' 23' .: ; <:8253' + ' 49B2' ; 2B2I'
o ' (! ' <- # ' 23' #
' # 3BI' ' Q 5*3B2*3 *89I' 892/I' "; ' $9'
,b3 ; + I' @: 53I' 25' :B ; 2' 42' 3 889I' ' 4 93B28' .=:*
28' 52' .:9B:552' 253B23 8892' 42' 29 + J2' 4:B
-' # ' S 6 8 38 ' E: 3'25.:B' 53B23 889' +28
3: +28' 42' 5' :BI' - ' ' *M ' 5 # !
-' (! ' <- # ' 23' 7
' Q 5*3B2*3: * /I' ' ' B52 ; 253' 42'
42532+2' <+ . ' 253B2' 429A' G 5428' 42' 3: +2
-' (! ' <- # ' 23' !
' Q 5*3B2*3: *M/I' ' ' .2' 42' G: 8I'
42' 2B' ?9 ' 82' ; 23' 253B2' 429A' 93B28' <:9B' +28' :B3 K
2B' :9' +28' 95 B' 253B23: 82' 283' 95' 882 ; G+ J2' 25'
:B ; 2' 42' 8 93: B' IL ' :B.2 9' 42' G: 8' ?9 ' 89B ; :532'
+28' 429A' < 2.28' 4952' E: 39B2' <<2+428' ; :93:58' 42'
42BB 2B2' IL 2B ; 2' 4 B3 +2B 2' _.28' ?9 ' 95 88253+28'
429A' 8?928' 495' 3
' ' 58' 4:932' - # ' 23' !
; 3' * # ' Q * Q 5*3B2*3:9*.=4/I' ' # '
23':9.=2B' ; 9392+2 ; 253' 5' B.= 32.39B2I' :5' 5: ; ; 2'
3:+:5528' ..:9< 428' .2+28' ?9 I' 43 53' 429A' ' 429AI'
8253B2*3:9.=253' < B' +29B8' G 828' 23' +29B8' .= < *
32 9A' 28' < B.2+28' 42' J+ .2I' 43 53' <:988428' +28'
9528' .253B2' +28' 93B28' < B' +28' E25380' 8253B2*3:9*
.=253' 8 58' 895 B' <:9B' .2+ ' 3:93' ' 3I' - C)
! # ' N
-' # ' o ' 8' 28' ?9 + 348' 42' 3:58' .:B<8'
8253B23:9.=253' J 88253' 952' .253B2' 93B2I' '
3' ; I' < ' C F
' ' <- # ' 23' !7(& #
3' * ! ' Q ' Q 5*3B2*3B: ; *<4/I' /' # '
2' 3B: ; <2B' 95' 93B2' ' 5' 52' 3' ?92' 8253B2*3B: ; *
<2BI' 0 - ' < B3I' I' B3' %
' ' <- # ' 23' #! #
3' * ' Q ' Q 53B2*3B:9*E4/I' 5 ' # '
2' 3B:9E2B' 95' 93B2
- # ' A568' :83B2' M8 I' 2' E:8' HE:98I' ; ' ; 2B2I'
25' 8 ' ?92' 28' H 291I' + ' 5:3B2' <2B2' ' :8' E:+83'
HE293I' "' G:52' 5' ; 252BI' $92' 5:8' H5:98I' ' 3' 25*
3B23B:E2BI' H# / ! # ' 6 ' H# -"
-' (! ' <- # ' 23' #!75 #
*5 ' Q ' Q 5*3B2*39*4/I' 5 ' # ' 2' 392B
95' 93B2' ' :552' :B4B2' ?92' 8:98' 3:5' J45 2' 2' 32B*
; 52.2332' ; 5 2' 3' ?92I' + 8' 42' <2B<4392B' 52' 8'
+:5J92' ; +E2 + 5.2I' :98' 2 ; <+:R :58' 5:3B2' E +*
+ 5.2' +29B8' ?9 "' 5:98' 253B2*392BI'
5' <29<+2' ?9 ' B2< 88 3' 828' R29A' =: ; . 428' 49'
.B92' <+ 8 B' 42' E: B' 428' =: ; ; 28' 8253B2*392B' 42'
8 5J* B: 4I' K ' :52' 1<75# M ' EI' < ' 7CI'
4 58' * ! (
-' # ' S 6 8' ' ?92' @ 4 8' 8253B239: 253I'
. ! ' " # C ' QLA E6' 8' ' + BB: 5' 82' .: ; G 3253 ' 2'
3:93' 8253B239: 253I' 52' 82B: 3' < 8' < 3 4 ' D 7" ' " '
@ ' ; 5I' 3 :M ' +LAE 6' 8' 5' +28' *E:R: 3' 82' .= BJ2BI'
G+2.2B' 23' 253B2392B' +28' 958' +28' 93B28I'
' ' <- # ' 23' 392B
3' + ' Q ' Q 5*3B4*E4* 4I' ' ; :9 +*
428/I' 5 # " ' 4E2 +2B' 95' 93B2
' # ' o ' 8' 253B2E2 +2BI' >2'
8 ' .2' ; 282 ; G+2I' 9' ; + 29' 428' 8:94 B8I' 5'
8: ; ; 2' 253B2*28E2 +4' <B254B2' 42889B' + 32BB2I'
BMB
-' (! ' <- # ' 23' 5 #
j' * ' Q ' Q 5*3B2*E 5*4B/I' 5 ' #4 '
2' 3B = B' ; 9392+2 ; 253
-' (! ' <- # ' 23' 5 -"#
3' -" , : , ' Q ' Q 5*3B2*E *M *34/I' 5 ' #" '
2' E 8 32B' ; 9392+2 ; 253
-' # ' o ' 8' 9' 8: B8253B2*E 8 3 53I' 89B' +2 B:*
35 J2I' 28' 2G 83 J528' :9' 2' @ ; G:5I' H 8I' 9E: 253'
49' G:5I' ' LAE 6' 8' 2332' +:9 G+2' .:98*
39 ; 2I' :G82BE42' 253B2' +28' JB 548' <B <.28I' 42' 82 *
3B2*E 8 32B' < B' 952' ; G+2' .:5JB 39+ 3 :5I' 7
+I' 3C ' 28' <2:<+28' 8253B2E 8 3: 253' 25' 3:932' .:B*
+2' =:8< + 34I' ' 7 '
-' (!I' <- # ' 3'5 #
' F * ' Q 5*3B2*E:+/I' ' ' 8< .2' .: ; *

<B 8' 253B2' 429A' E: 28' 495' .=2 ; 5' 42' 2B' IL?7' 7# '
28' 253B2*E: 28
' ' <- # ' 23' 5!
' Q 5*3B2*E: B/I' 5 ' ' @ ' .:5@9J92'
.: ; ; ' E: B' IL ' 2' E: B' ?9 ; < B 32 ; 253I' 8 58'
G 25' 4 83 5J92B' 53B2E: B' 95' :G@23' "' 3B E2B8' +2
GB:9 + B4I' 4 58' :G8.9B 34 B .2' 9' . 2+I' @25*
3B2E: ' 29A3' ?92+8' B9 882 9A' 4 ' 8 5J' .:9+253'
93:9B' 42' ; : + " ' ? -"# ' 5 ' N ' 8' 253B2E:R 253'
44>" + ' +9 ; 4B2' 49' 84@:9B' 428' =4B:8I' ' , " ' 5A '
' G8:+9 ; 253' ' :5' 52' <253' < 8' 3:93' E: B' + 93'
8:9E253' 82' .:532532B' 4253B2E: BI' ' 1!- "'
(!# ' !#/' 3' E I' < ' ' 4 58' ' IL J' :98'
52' 8:58' ?9253B2E: B' + ' E4B 34' 53B2E: B' 5325*
3 :5' 42' ?92+?995I' ' 0 " ' ' 4 58' '
>2' .B: 8' 42' .2' 448:B4B2' 253B2E: B' :B J 52I'
D # - ' I' ' > ' .B9' 4 58' 8:5' 448:B4B2' 253B2E: B'
8 ' 3254B2882I' 5 ' D ; B ' 5 I' N ' >253B2E: 8' E:8' ; 4*
<B 8' 23' @9J2' "' E:8' 4 8.:9B8' ; G 25' @ .=432B 8' E:8'
89<2BG28' 82.:9B8I' 5' & / ' EI' N ' 58' 28<: B'
4:53' @253B2E: 8' +28' .= B ; 28I' 2' ; G 54:552M < 8I'
29' ?9 ' E:R2M' ; 28' + B ; 28' ' X # ' 5I' 8' >2'
98' <B: :544 ; 253' 3:92G42' 42' + ' .: ; < 88 :5' ?9 + ; 8'
+ 88 3' 253B2E: BI' dB' ' 44' ' , & ! " ' 3' + I'
+233' ' < ' N I' 4 58' ' IL B4E: B' >253B2*
E 842' JB 548' :G83 .+28' IL 6' 2' E: B?995' ; : ; 253'
>2' 5 ' 3' ?92' 253B2E: B' >2' 525' <9 8' 3B:< @9J2BI'
@2' 52' ' ?9253B2E9I' ' ? ' 1&" ' -'
< ' - ' IL 0 253B2E: BI' 5 # ' E: B' 952' B *
< 42' 253B2E92' 8' 8253B2E B253' 4 58' 32+2' ; 8:5'
29B8' . <3 8' 4 58' .2' 3B:9G+2' :82B253' 8253B2E: BI'
" ' D ; B ' " ' " ' 2' B254B2' ; 9392+2 ; 253' E 8 32'
H 58' +2' G28: 5I' 25' 58' +28' 5E 32B 3' H+28' =: ; ; 28I'
"' 82' .:55 3B2' 23' 8253B2E: BI' ' <B ' A
-' # ' J 8' 25' H +8I' 8253B2E2 253' 25' ; ' + I'
<+ 58' 32BB2I' 1& ' " ' K ! ' AAA A ' LA 6' 8' ' 3:83'
.9 ; ' 8253B2E B253I' +928' H8 583 B42BI' 82' 8253' 25.:5*
3B4I' ' + ' B2 8' #25B ' I' 2' + + I' 8 +94I' ,& ' ' # '
' J 8' @: 249' <2B223' 49' 8 ' 9' ; :93' JB 53I'
. B' JB 53' < 2.2' E: 3' ?9 + 52' 8283: 253' ; 2' 253B2*
E298I' ' LAE 6' 8' 28' .: ; < J5:58' 49'
.= 832' E 5B253' E: B' +28' 5J+: 8I' 58' ?92' J258'
4 B ; 28' 8253B2E: 253' E:+:53 2B8' 23' 28<2. +2 ; 253'
B 5.: 8' 23' 5J+: 8I' % ' 5I' ' ! 28' G:58' 82 K
J529B8I' @2' <2582' "' ; :5' E 8I' $92' 8253B2E: B' 23E *
M 32B' 8:9E253I' 283' .2' ?9 ' .3' 3:9@:9B8' +28' G:58'
; 8I' $ ' $ ' ' ! J 8' :9B' :G8.9B 34' 42' + '
2G ; GB2I' 52' +28<:9E: 3' .:55: 83B2' < B?9: I' +28' 25*
3B2E:R 53' G 25' <B48' 95' 42' 93B2I' 82' <B 53"' .B 2B '
? ' !75 ' AE ' +8' 8253B2*283: 253' E98' 9A' 95 *
E2B8 348I' ' 1!- ' AE 58' 8253B2E: B'
. B' @ ; 8' +28' B:R852' 82' E:R253I' 9' ; : 58' ?92' G 25'
B B2 ; 253I' 42' <29B' ?92' 253B2E92' 52' +29B' .2' 3: ; *
G2B' 25' ; 28<B 8' +28' 958' 428' 9+3B28I'
94B ' E: B' 4 + J2 ; ; 253' 28J B4' 9' < 3 253I' 23'
253B2E: B42' 32 ; <8' "' 93B2I' ' , ' 3' 93'
4E 8' "' 95' 42' .29+A' ?9 ' ; B.G: 253' 42E 53' ?9 + 25*
3B2E2: 3' 3:93' 9' G 8' 9' < 24' 428' B:.=2B8' +2' . ; < 428'
B2.8I' ' 1 !- ' C
-' (! ' <- # ' 23' 3 :3B' G:9BJ9 J' - #5 #
' * B33' Q ' Q 5*3B2*E:9*+: B/I' 5 ' # '
, :9+: B' ?92+?92' .=:82' 95' <:9B' 93B2' +8' 8253B2*
E29+253' G2 9.:9< 42' G 25' IL 253B2*E:9+: B' 89 E'
495' E2BG2' .3 ' 8' 8253B2*E29+253' 89B< 882BI' +8'
E29+253' 82' 89B< 882B' 95' 93B2
-' # ' o ' 8' ' .:5E 253' ?92' +28' ; 8' E 2+253'
HE29 +253I' G 25' 95' "' 93B2' 2582 ; G+2I' 23' ?92' +
8 .=253' ?92' + 8253B2*E29+253' G:5528' .=:828' I'
" ' < & ' ') ! J 8' 28' 429A' B ; 428I' 25'
8253B2*E: 9+ 53' E 5.B2I' 52' <29B253' < 8' 829+2 ; 253'
82' .: ; G 33B2I' ' 3XD
' ' <- # ' 23' 5!7 ! #
' Q 5*3B2*E: /I' ' ' 2B ; 2' 4 B.= *
32.39B2' 28< .2' ?9 ' 283' 253B2' .= ?92' 8:GE2' IL 8K
< .2 J B5 ' 42' <+"3B2' :9' ; ?:552B 2' 32' 253B2' +28'
<:32 9A' 4952' .+: 8:5' :9G+28' :548' :9' 253B2E:98'
4 8<58 8' 89B' 3:93+2' <:9B3:9B' 42' .= ?92' 3 J2' H 495'
3= 3B2>I' ' ?(" ' " ' ' 1! ' # - "7 '
3' E I' < ' NN ' ' + 5.G2: ' 5 ' ?92' ' "' N ; + ; *
3B28' 4 < 8829BI' 23' ?9 ' 283' <B:<B2' "' B2' 428' < 5*
52 9A' 28' 4:8828I' .G 528' 23' 253B2E:98' 42' 3:9328'
+:5J929B8I' 82B:53' .: ; <3 28' 3B: 8' 3: 828' <:9B' 429A*
23' +28' 4B: 38' 82B:53' <2B<98' .: ; ; 2' 42' + ' <+ 5.=2I' "'
<B:<:B3 :5' 428' +:5J929B8' ' " ' ' :. ' A R I' , #
-' (! ' + 82 ; G+2I' ; +JB ' + ' :B ; 2' BB J9+ B2'
42' .2' ; :3I' ?9 + 283' :B ; ' 42' - # ' 23' 5! ! #' :9'
5! ?
3' ! " , + -8 , ' Q 5*3B2*E: *3 /I' E ' ' B5 B42'
<+ 3B2' 532BE +2' + 88 ' 253B2' +28' 8:+ E28
-' # ' <- # 5!7
I' ' Q 5*3B2*E9I' E92/I' < B3' < 88 ' 4 25K
3B2E: B' 9' "' <2 52' 2' @:9B' ' <2 52' 253B2E9' < B828'
R29A' ; :9B 538' IL 9' 95' ; : ; 253' 53B2E92' 9' G +

< B' 95' @2952' G: ; ; 2 ' IL B E9' :9328' +28' 4 29+ 8'
253B2E928' 8 <+ 5 B253
' Q 5*3B2*E92/I' 8' ' 25.:53B2' 253B2'
428' <2B8:5528' : ' :5' . 982I' : ' :5' 3B 32' 4 B28'
253B2E92' I' 8 ; 253' 82' 32B ; 52' 25' ?92B2+2I'
0 ! ' 5I' " ' :+R5 .2I' 82 J529BI' 42' ; 542' 952'
253B2E92I' ' , & " ' ; I' N ' 95' < B2' 234 5' ; 5'
8:9325 B' 253B2E92I' ' # - ' EI' "
-' # ' ! J 8' ' 253B2E292' ?9 ' 82' 4B288 ' 49'
< <2' +2 ; 253' 23' 49' B:R' B 5<: 8' "' ! B82 2I'
1 ' ,
' ' <- # 57
j' S ' Q ' Q 5*3B *\8 *3 /I' 5 ' # '
2A. 32B' ; 9392 2 ; 253' B42' 5:9E2 9A' 2 :B38' +28'
B ; 29B8' 8253B2A. 3253I' % ' 0& # ' 5
' ' <- # ' 23' B(#
b S# ' Q ' Q 5*3B *JM:B*3 /I' ' # '
2A=:B+2B' ; 9392+2 ; 253' S' 2A2 ; <+2' 49' .=2 ' +28'
8:+4 38' 8253B2A=:B3253I' % ' 0&(* 5
' ' <- # ' 23' B&!# #
' Q 5*3B *E B/I' 8' ' 2B ; 2' 4 JB *
.9+39B2' G:9B' 3' <254 53' G E2B' ' + ' 89 32' 495'
4 J2+
' ' <- # ' 23' & 5 # 0
' Q 5*3B *E B*5 /I' 5 ' ' 2B ; 2'
4I' JB .9+39B2' :552B' 95' + G:9B' 9A' .= ; <8' 4 58'
532BE +2' 428' J2+ 28
b # ' Q ' Q 5*3B:*5:*B /I' 5 ' # '
G:5:B2B' ; 9392 2 ; 253
-' # ' J 8' 28' %&4G' %17& ' ?&3+2&3,2&2&3+'
3' 42' .2' 54&' +:B' - ,+']- 4+< -12 &2&3+' \ ' #/ '
C # ' - ' 0
' ' <- # ' 23' &!-!# #
+' ' Q 5*3B *J= /I' ' ' 28' J258' 42'
253B J923I' J258' 4 ; <:B3 5.2' 3' ?92' 3:932' 5:3B2'
; +2' ' <B:<B2 ; 253' 8= G +2' :9B' 3B2' <+ . 2' 9'
8: ; ; 23' 2' + ' 8 +8' : ' :5' ; 23' 28' J258' 42' 253B K
J923I' ? ' D!7#/ ' / - ' D ' IL ! :3' E 2 ' 23' 3: ; G '
25' 4 89 3942
' ' ! :3' ?9 ' < B 3' 82' B <<:B32BI' .: ; ; 2' 4 *
; 593 I' "' - # / 7 ' 4 58' +2' 8258' 4: ..9< 3 :5I'
B2
+' ! ! ' Q ' Q 5*3B * ; ; :*+ /I' 5 ' # '
; ; : +2B' B . <B:?92 ; 253' 8' 8253B ; ; :+253' 3:98'
9' . : ; ; 95' 4E2B8 B2I' ' , ! ">! # ' I'
' ' <- # ' 23' ! #
j' ! ! ' Q ' Q 5*355*\ :* ; :*4 /I'
' # ' 5. : ; ; :428' B . <B:?92 ; 253' I'
' ' # ' ! J 8' ! 28+ 58' 2582 ; G+2' +28' BGB28' 42'
5: 9' 23' "' <2< 5I' 8 58' .B 532' ?92' +29B8' 4 2B25328'
?9 + 3 8' +28' 253B2* 5: : ; : 4253I' :' ' N "
-' (! ' <- # ; ' 23' ; -(! ! " #' 9' AE 6' 8 2.+2I'
+' ' 3 ' 2 ; < :R ' .3 E2 ; 253
3' > ' Q ' Q 5*3B 5*@9B *B * /I' 5 ' # '
5@9B 2B' ; 9+92+2 ; 253
-' (! ' <- # ' 23' -;7# #
j' ' Q ' Q 5*3B 5*83B9 *B/I' 5 ' # '
583B9 B2' 95' 93B2' ' 93' 4:52' 8253B ; 2BI' +
93' 4:52' 8253B 583B9 B2 ' 93' 4:52' 8253B2*82*
.:9B BI' ' ' '
-' # ' ! J 8' 253B 583B9 B2I'
' ' <- # ' 23' - #7 #
j' I' c ' Q 5*3B *< *+ I' + 2I'
; :9 28/I' "; ' $9' ' 42' + ' 3B < +2I' ?9 ' ' 952'
JB:882' G24 52 ' 93' 95' B: ' ?9 ' 8: 3' JB:8' 23JB 8
.: ; ; 2' ?9 3B2' 95' B: I' ; :BG+29 ' ?9 ' 8: 3' 253B < +2'
.: ; ; 2' + 93' 95' B: ' 4952' E 832' . B.:5 B25221I' 23'
?9 ' <9 882' B2 ; < B' 95' 3B452' 42' + ' G2 2' ; 5 2B2I'
' #! 7 ' " ' = G98I' 42' 3:98' +28' 4 29A' +2'
<+98' 253B < + I' 5' < 82' <:9B' +2' ; :@58' 952' 42 ; *
4:9M 52I' ' 0& !- ' EI' "
' >5 " I' 23' #
+' ' Q ' Q 5*3B: *G+ *@ /I' 5 ' # '
: G+ J2B' ; 9392+2 ; 253
-' # ' ! J ' 253B: G+ J2BI'
-' (! ' <- # ' 23' ! / # '
+' ' Q 5*3B: *\ * /I' ' ' :R '
, ' Q 5*3B29+ I' ' ; :9 + 2 8/I' ' ' B*
3 2' 42' + ' .2' ?9 ' 82' 3B:9E2' 253B2' ' 429A' R29A'
' ?7' 7# ' 28' 253BI:2 +
-' (! ' <- # ' 23' + 0
3' ' Q ' Q 5*3B: * 5*8 /I' 2' #
: 2582B' ; 9392+2 ; 253
-' # I' S 6 8' E2: ?928' 42 25828' 42' 52' 8253B :*
2582BI' I' N7' I'
' ' <- # ' 23' ! - #
3' I' ! ' Q ' Q ; 3B: 5*GB *@ /0W ' # '
: ; GB J2B' B . <B:?92 ; 253
-' # ' o ' 8' H 5' G:. J2I' :53' +28' .=2E2: A' < B
+2' #' - ! -' 3:5498' 253 : ; GB8' 2: 253I' 94' 89B+ E*
3B:' 28< 5498I' ' N" ' I' bI
' ' 5 B2I' 23' ! # / #

[illegible]

3 0 'Q 5*E2*+:*< 50 < 5* /0 ;' 6 $9' 25E2+:<<2' '< B3 2 25E2+:<< ;20>' ' 88' "06 '#7#' '&! ' IL '@' ' 2B ; 2 42 J4:U 5 3B 2' 5E2+:<< 5320 + J52 ?9' 25E2+:<<2

'Q 5*E2*+:*<4/0 6' ' ILZb' 2 ?9' 25K E2+:<<2 :9' 82B' _ 25E2+:<<2B' l25E2+:<<2 4l95 < * ?9230 4l952 +233B2' 2B '@/ R4' . 5? 8:+8 42 + '8 ; <+2 +233B20 8 A 8:+8 <:9B + '+233B2 E2.' 25E2+:<<20 82<3 8:+8 <:9B + '4:9G+2 +233B20 23 ?9 5M2 8:+8 <:9B l:5.2 428 < ?92380 , # '"" EB' "NCN' :98 4 ; B:58+ ' 8 J . 3R 49 5 39B + 832 ?9' '89+2 <B2 ; 2B 44.:9EB B +2 < < +:5 8:98 l25E2+:<<2 42 .=25 ++20

1!- "'(!# '!#/' 'E0 <'NF0 4 58 7 '42 +' = '82 .= BJ2 42 E:98 B2 < BE25 B.2 < ?923 ?92@l ' ; 8 8:98 25E2+:<<2 E2.' ; :5 . .=230 <' .:9 '+ '0 """' ' .B B2 8:98 l25E2+:<<2 42 ?92+* ?9l950 25 2B ; 2B 8:98 8:5 4B2882952 +233B2 4283 542 4 95 93B2 ' IL 2 4 3 42 <23 328 29 ++28 3:9328 <+ 428 23 3:9328 ; :5 28 42 J : ; ; 20 <:9B ; 233B2 +28 233B28 ?9l:5 25E: 2 < B + '<:832' :985l 9B2M <+98 42 .28 <23 328 25E2+:<<28 3:9328 3280 ?9' E:98 44<+ 82530 !]6 ' 0 44+2 ' , C!"' 0 +233' '<'NN0 4 58 ' IL 2B ; 2 42 G:3 5 ?92' 5E2+:<<28 3:B +280 +2 <4B 53=20 .l283*4*4 B2 +2 . + .2 23 + ' .:B:+2' ' 2B ; 2 4l 5 3: ; 2' 5E2+:<<28 49 :23980 +2 .=:B :5 23 l ; 5 :8' IL ' 2B ; 2 42 :B3 . 3:5 9EB J2 ?9'25 253:9B2 23 25 .:9EB2 95 93B2' B2* ; 4B20 82.:542 25E2+:<<20 <B2 ; 4B20 82.:542 25K .2 532' ' U 495 :5 428 . BB2 9A :B ; 53 +2 .:B<8 4l95 <:4+2 .3: 8:5 25 GB ?928 42 8:5 <:9B3:9B 2A* 34B 29B' IL" ' J' 2 ?9' . .=20 .: ; ; 2 3 952 25K E2+:<<2' 28 :B49B28 R 8253 4 E 8 J2 44.:9E2B30 2 28 50:53 < 8 + ' ; : 54B2 25E2+:<<20 '1#)' = (' ' :98 52 E2BB2M + 'E4B 34 ?92 8:98 4< G2+28 25E2+:<<280 '9GW A ' 5 <253 43B2 .= B ; 4 49 G2 90 ; 4 ; 2 9 3B E2B8 42 l25E2+3 ;<2 4l95 .:B<8 3B48*+ 40 '0 !-'C #/'"><(' $92 + '<+9* < B3 428 =: ; ; 28 :53 952 25E2+:<<20 ; 8 ?9l2+2 3 25323 82BB2 8 <290 ?9l 3283 3B48*4 +0 . +2 ?92 ?92+* ?92 .434 52 E 2552 482 44.:9EB B0 6 <'?# (' ' "-'ILF J' 5E2+:<<2 4< 8820 << B25.2 4l95 .:B<8 4< 8 23 42 +:9B429B ?92 <B48253253 .2B3 58 =: ; ; 28' #: ; ; 2 4l28<B 3 23=: ; ; 2 8 J20 ?9 0 8:98 952 4< 882 25E2+:<<20 52 + 88 3< 8 42 B495 B952 + 334B 39B2 2A?9 820 G2 9.:9< 42 <:+ 32882 234l ; * G + 340 6 'K 'E' IL 5 4 3 4 58 95 8258 5 +:J920 B942 25E2+:<<2' l283 .: ; ; 2 E:980 ; :5 ; 0 ?9 0 8:98 + 'B942 25E2+:<<2 4l95 ; B 50 . * .=2M 952 E2B 3 G+2 42+ . 32882 23 95 .:29B 4l:B <:9B ' ; 80 '1 'D #!-" ' 'C @@' 'O f(' '&!-' ;0-&&0 !/' "(2!'4*!"0.*-"'%' 026"%""#"(' 26"+-("("%"/."&*44"(' 59 '%/@ .*&!+#/ ' ?' *8'

'c 'Q 5*E2*+:*<40 <42/0 # ' ' 4l25E2+:<<2B' IL ' B5' 42 ?92+?92 .=:82 ?9' 8l25* :9+2' 28 + EB28 8:53 25E2+:<<48 E2.' 8< 5' 5E2* +:<<44 58 8:5 ; 532 9' 5E2+:<<4 @98?9l 9A R29A' RL =BR8 + 428 25E2+:<<4280 .2+28 428 4< 4:<34B280 < B.2 ?9l25 2 23 2+28 8:53 25E2+:<<428 4l95 4J2B B482 9 42 8: 2 253B2 428 29 ++28 IL J' 3 l2A +4l * B 83 2 25E2+:<<4 4l2559 80 '@ # !#'90 " E +29B 3B: ; <32 28 ; 9A ?92 @l '<B4E98 82 E: 325* E2+:<<420 '? B' +90' '2 B:' 4l95 5: B .= K JB 5 < B +3 25E2+:<<40 5'< &' 50 "' 23 =: ; ; 2 . .=4 4 58 8:5 4482B30 25E2+:<<4 4 58 8' E2B39 23 .: ; ; 2 54 53' 25 +9 * ; 4 ; 20 42E 53 95 428 <+98 5:G+28 583B9 ; 2538 4:53 29 82 8: 3 82BE' 4 58 8:5 J+ 82 <:9B B2 42+ 3:B 8 '<9 88 5.20 % '0 -4)' / #'@' # -/! '"'0 7 ' 2 E: 8 + ' 2 42 :5 25E2+:<<42 42 8 '=:532 23 42 8:5 J5: ; 5 20 ' # ' l283 '+' 8 J2882 =9 ; 52 23 .:BB: ; <92 = 43B2 5.2B3 52 23 3 ; 42 3:9@:9B8 25E2+:<<42 8:98 42 98828 << B25.280 23+2 4: 3 3:9@:9B8 .B 54B2 ?9l95 .:9< 4l:2 + <+98 =29B29A 52 + '<2B.2 25 5 23 52 + '44 ; 8?920 5'0 '(#'C (7 ' 58 828 8: ; 2 GB28 9B29B8 889B 25E2+:<<40 '@ #'E0 "' :9B ; : 0 ?9' 4 58 ; ' . BB 4B2 <9G+ ?92 5l '@ K ; 8 .B 53 ?92 4l E: B 3:B3 ; :'?9 0 25E2+:<<4 42 ; '.:58. 25.2 23 B ; 4 42 <B 5. <280 GB E2B 8 l9* 5 E2B8 ' '1! (! -'3' 0 <' 'IL ' 82 4 3 42 <2B8:5528' 42 3B:9<28 ?9l95 5: ; GB2 89<4* B 29B 253:9B2' 28 8 \+3 29A 25E2+:<<48 < B +28 J25K 4 B ; 28' '+9' ; <:B3 3 42 :B ; 2B +2 <+98 JB 54 B:53 ?9l + +9' 82B 3 <:88 G+20 8 58 3B:< G+ B 828 <= + 5J280 <:9B52 < 8 43B2 25E2+:<<40 'K ' -'1<7Q '3'50 <' M0 4 58 '+2 E29A ?920 4l2552 ; 8 < B3:93 25E2+:<<420 ; ; 2 B <<2+2 25 5 +2 82.:9B8 42 ; :<420 &#' ; 0l"' '82 4 3 428 .= 828 4 58 95 82338 5 +:J92' 5E2K +:<<4 < B 95 3:9BG ++:5 42 <:988 4B20 < B 28 + ; * ; 28' /]$9' 28 3 25 G9332 9 ; 2 ; 2 .. 4253 ?9l95 +9+B20 ?9' :83 33 53 < B +2 ; 4 ; 2 4 5J2B' :98

429A 25E2+:<<48 4 58 952 ; 04 ; 2 ..98 3:5]' ' .B:R 3 ?9l + 52 <:9E 3 43B2 25E2+:<<4 4 58 8' ; 520 % ' , 'O ' :93 >94 0 .: ; ; 2 E:980 <+ J5 3 8' 4283 542 H42 >: 8l0 E2.' 828 B4B28 ; :B38 +2 2 ; 3 25K E2+:<<40 '? & ' 'Y' 5 '.2332 <B4. 93 :50 E:98 <:9BB 2M G 25 E:98 3B:9E2B 25E2+:<<4 4 58 8' 4 8JB .20 '+ ' 7' "7 '"'''! ' ' : 3 "C""' "' .=4 .: ; ; 2 8:98 952 25E2+:<<2' +8 .9+3 E25395 448 B 25E2+:<<4 42 + ' ; :B3 4l 93 ; 0 ' '" #' ' 2 5l43 3 <: 53 95 ; 4B 32 25E2+:<<40 ?9' <2B?43 4 . +2 ; 253 9 3B E2B8 4l95 2A34B 2 B 3B 832 23 8: ; GB20 % 'A B 7' IL E: B l28<B 3 25E2+:<<4 4 58 + ' ; 3 4B20 43B2 :B3 JB:88 2B0 8 5828* <B 3' ' 5 28<B 3 25E2+:<<40 95 =: ; ; 2 4:53 +28 4428 8:53 .:5 9828 23 +28 2A<B288 :58 :G8.9B28' IL 8* .:9B8 25E2+:<<40 4 8.:9B8 4:53 l2A<B288 :5 283 B25* 492 :G8.9B2 < B . B.:58<2.3 :5' >2 E:98 8 3:B3 42 4:932B 42 E:3B2 532++ J25.2 89B .2 ?9' 283 95 <29 25E2+:<<40 84E' NN' 5 .B 53 889B4 ; 253 43B2 25* 325490 :9 <+93 3 :5 52 8l253254 < 8 8: * ; 4 ; 20 ?9 54 :5 82 .= BJ2 42 3 93 42 < B:+28 593 +280 42 3 53 42 <=B 828 25E2+:<<4280 42 3 53 42 < 88' 28 .:5 984 ; 253 253 88480 ' , #' M90 [' '8 +3 < B+2B 4l952 ; 5 4B2 25E2+:<<420 ' '' + 3:5 52 5:98 '2A<:84 828 :< 5 :58 ?92 4l952 ; 5 4B2 25E2+:<<420 % '0 !-' ' ; 5 4B2 42 8l2A<+ ?92B 43 3 89G+ ; 20 23 ?92+?92 : 8 :B3 25E2+:<<420 % X ++' 1a #(' ' 8:552 ; 253 25E2+:<<40 B 8:552 ; 253 :G8.9B0 2 ; G BB 884 -' !' :+3 B2 '4 3' !:5 +8 25E2+:<<4 4 58 95 < 4J2 952832 0 A #! ' 0 "' l283 952 ; 43 * <=:B2 ; 5?942 ' + '<B 8 < 4J2 <:9B +23

3 'Q 5*E2*+:*<42/0 'I' IL 6 2B ; 2 42 :B3 . 3:5* 9EB J2 ?9' '<:9B :G@23 42 B43B4* . B 95 :884 IL 6 2B ; 2 42 J4: ; 43B 2' J52 25E2K +:<<42 < B 952 93B2' '8:5 ; 2 428 25E2+:<<4280 4 58 952 J9B2 .:5E2A20 283 <+98 <23 32 ?92 .2++2 428 25E2+:<< 5328

3' ! 'Q 5*E2*+:*<2* ; 5/0 8' ' ' .3 :5 4l25E2+:<<2B' l25E2+:<<2 ; 253 283 <4228* 8 B2 <:9B .:582BE2B +28 ; 4B2= 54 828' IL 6 B 2A3258 :50 :5 4 3 ?92 428 J2B ; 288:534' l43 3 4l25* l25E2+:<<2B + '3432 4l95 ++5J20 +2 .:B<8 4l95 ; 5K E2+:<<2 ; 253 +:B8?9l +8 8:53 25.:B2 4 58 +29B8 25E2* +:<<28 23 J'?92 428 4428 428 <B 5.<28 8 3 ' l43 3 4l2:2E2+:<<2 ; 2530 ?9 54 .28 4428 .28 <B 5* .<28 5l:5+ 25.:B2 B2?9 9.95 44E2+:<<2 ; 2530 ' ^ 58 +2 + 5J J2 42 2G5 3M0 43 3 4l95 J2B ; 2 ?9' 5l ' < 8 .2 ; ; 2524 ' 82 44E2+:<<2B' 28 4428 5l 53 B 25 42 .: ; ; 95 E2.' .23 25E2+:<<2 ; 253 4:53 < B+2 2G5 3M + 283 ; 5 2838 ?9l + l:<<:82 9 44K E2+:<<2 ; 253 :9' '.2 ?9l '5: ; ; 2 952 9J ; 253 K 3 :5 4 58 +2 3:93 :BJ 5 ?92 <B4 :B ; 40 'O)' -/ -' & !'E 0 (!' <-5 ! #3 <B:E25?' -5! ! -' 5!! - 3 3 +' -5 7 - ! 'Q 5*E2*+:*<4/0 3' ' ' 6 !233B2 93:9B 4l952 .=:82 ?92+?92 :G@23 ?9' + ' .:9EB2' 5K E2+:<<2B 428 43: 280 428 = G 380 428 B B.= 54 828' l25E2+:<<2B + '3432 4l95 ++5J20 +2 .:B<8 4l95 ; 5K 32 9' ' '8 '4 3 42 + ' .=:82 ?9' 25E2+:<<2' '3: +2 ?9' 25E2+:<<2 .28 ; B.= 54 828 IL B 2A3258 :5' ! 80 829+20 89B + '<<:92 5E:?9 53 +28 43: +280 2 E253 ; <43929A ?9' 8:9 + 3 4 58 828 E: 280 l25K E2+:<<2 43:5522 23 +: 5 428 ; 32+:380 +2 3: ; G20 2++2 .B 20 2 2 283 9 82 5 428 +:380 ' ' / ' ' 'J' 3 E:98 52 42E 2M < 8 25E2+:<<2B 4l95 .B ; 2 2 ?92 E:3B2 E 3: B2 @:932 'E:3B2 283 ; 20 'K (! '30 ' 58 95 .: 5 49 @ B4 5 8:98 95 4< 8 59 J2 +2 l25E2+:<<2 25.:B 4l95 8: ; ; 2 + 882M 4:9A0 ' , ! '"!# 'E0 N' 3 4 58 952 2 ; * GB 88 42 :5 +29B 0 <:9B .:5:+9B20 3 E 32 25K E2+:<<2B 3: 32 + '<B:2449B20 7!+ 'E0 "' IL 6 c5* E B:592B0 253:9B2B' 5E2+:<<2B 2552 ; ' 48 B0 42 3 53 4l:G@238 25 ; 4 ; 2 32 ; <8 B <<40 2 + 882 253B2 +28 ; 58 ?9' l:53 25E2+:<<40 'D# 'E0 B' ! 8 +28 <B43B28 G 25343 5:98 :53 25E2+:<<48 0 5:98 ' 3 8:B3 B0 ; '? & '90 'IL 6 B254B2 .: ; ; 2 4 58 99 +23' 4 ; B G+288 58 4:932 <:9B 25E2+:<<2B 952 49<20 ') 'A' >2 8 E 8 G 25 ?92 E:98 E 2M 952 ; 5 4B2 < B3 .9+ 4B2 42 B 8?5* 52B0 23 4l25E2+:<<2B 8' 4B: 32 ; 253 .2 A ' ?9' E:98 E 2M B2 4 58 428 BJ9 ; 2538 4:53 +8 52 <B4* E:R 253 <: 53 + ' .:5.+98 :50 ?92 E:98 +28 ; 25 2M : ' + E:98 <+ 8 30 % ' 50 a!##' -(' ' !"' ' "6 ; <B254B2 4 58' 5E2+:<<2B ?92+* ?9l95 4 58 952 ..98 3:5' B4:5 G 55 3 '!44420 23 828 :B4B28 <B4. 8 58 8:5 G 55 882 ; 253 25 ; 2:<* < 253 828 +80 ' " '390 ' 3 H2++2I ; l25* E2+:<<2B 3 4 58 +2 @9832 .:9BB:9A $9l2+2 9B 3 <:9B +2 B: 0 ?9l2+2 <B254B 3 <:9B 9c ' "' ,! ' '>!#' !' ' 58 8'B9 2 ; .: ; 2 + <293 l25E2*

+:<<2B0 * '1 -- ' ' "' :9 353 <2B4B2 :<<420 + 25E2+:<< '4 58 8 'B9 52 +4B 980 "0 ' :* '?-- '4 58 ' >2 E29A 4 58 ; :5 2A '5l25E2+:<<2B ?92 ; : 0 C '?# '50 "' :9B l25E2+:<<2B 4 58 8 '<2B320 ' K ' 0 ' 52 .:54 3 :5 ?9' l25E2+:<<2 4 58 + ' .:54 ; 5 3:5 J4* 54B +20 '1 #'@ #' IL Rf G8.9B. B0 E: +2 '0 :93 ' .:9< 952 5: B2 32 ; <432 25E2+:<< '+2 . 2+0 +# ' , ' ' B 2A3258 :5' 52 59 3 : e 9B2 25K E2+:<<2 8:5 28<B 3' 25343 0 ?9:' ?9l + H95 =4B:8I 3 30 + ' ; :B3 4l952 : ; GB2 5: B2 5E2+:<<2 E2.' +9 '8:5 5: ; '238:5 G 83: B20 'P ' NMI .=2B0 44J9 82B0 4 88 ; 9+2B' 5 '25E2+:<<4 .2332 E4B 34 42 G+28 B 4 .9+28' l ++4J:B 2 ?92 <:9E 253 25E2+:<<2B .28 G89B4 348 283 253 2B2 ; 253 <2B4920 $ ' K ' & '90 "' 'C6 R '5' 2B ; 2 42 .= 882' $9 54 :5 283 25 4! 930 :5 25E2+:<52 E2.' 428 2= 258 9*428898 23 9*4288:98 42 l254B: 3 : '+2 44 93 ' .: ; ; 25:4' ILF' l25E2+:<<2B09' '!233B2 93:9B 42 8: '?92+?92 .=:82 ?9' 253:9B2' l25E2K +:<<2B 4 58 8:5' ; 532 9' 58 2 8 .' B 4 .9+2 : ' . < 5 8l25E2+:<<20 >2 =2 B2.:95 8 <+98 l 9329B 49 ! 8 53=B:<20 '?# ' '+9 'S <2 52 + '442882 293 .=2E4 .2 4 8.:9B80 ?9l2+2 8l4+2E '4 58 +28 B8 23 8l29E2+:<< '4l95 59 J2 4l:B 23 4l M9B0 : '2+2 4 8< B930 E ' , 'AA E' IL J' 5 5 39B22 G45 50 4:9A0 . +20 4340 $9 0 52 B288253 53 <: 53 258: ' 42 JB 548 :G83 .+280 l25E2+:<<2 23 8l254:B3 4 58 8 '3B 5?9 ++ 340 ' ' 0 N' l + 93 8l25E2K +:<<2B 428 : ; GB28 49 ; R834B20 l283 +:B8?9l:5 .B 53 89B3:93 4l: 2582B + ' ; 84B20 " '&1, '0 N ' l:G8:9B. B' 52 B 8:5 ?9' 44> ' 8l25E2+:<<20 .2+ ' 8l25E2+:<<2 8:98 +2 5: ; '42 . ; < J920 4 58 'IL l2A<B ; 2B E2.' :G8.9B 340 E2.' ; K G J28' -' +29B B2<B: .=2 4l E: B <B:E:J94 +28 .: ; K G 38 < B 952 <:+ 32882 58 4 29820 42 8l43B2 25E2K +:<<28 4 58 428 4 8.:9B8 54 J528 42 + ' B 5.20 $ 'K ' & 'AE ; 0 "7 -' B 'O I 8' 5E:+9<4 4l95 < +2 +2A 54B =0 1&' "'@!' 'ILA 6 8' 28 ; 2 58 H ; : 58I =:528328 ; 25GB28 H49 .+2BJ4I 42 3 l95 <+98 =:59B2B 9+95.' l <:83+20 N <+98 4l:59B 25E:+9<2B0 , &' ' #'FF' l 5 53 '<B 8 + '4 ; 2 9 .:B8 E ++ 53 ' l25E:8* +28<2 5 95 .= 2B G:?92B 53 H952 43: 2 .=4B2I0 :9+ 42 1 # ' "'ILA936 8 9 8 <B2832B 589B20 :9B E: B l25E: 82:B2 H+ '< B9B2I 5 ?9' l:5 25E2+:< '2 :BJ92 +0 +28 2B2 49 [:542' IL AE 6 8' ' :R0 .2<254 53 ?92 5:98 8: ; ; 28 <2+2B 58 B9 ; :5420 283 3:98@:9B8 25E2+:<<42 42 G2 9.:9< 42 59428 4l2BB29B82 5:98 52 .: ; <B25:58 < 8 !7 '(' ?9' 82B: 3 '8:9= 32B0 ' - '""F' '?92+.95 .:5 :54 .2 E:. G+2 4l2+2.3 :5 25 .28 < 88 J280 ' 8l25E2+:<<2B '<:EB2 ; 253 8l + +2 3 4 83 5J92B0 + /18 'B 25 <+98 . +20 "' U AB ' 5E2+:<<2M 25 +29B 89 B20 '-'M ' 2 B2<B: .=2 82 ; G+2 25E2K +:<<2B H ; <+ ?92BI + ' .:9 B4 820 "' ; 0 AB' RBK B=98 288 3 42 32+2 5 39B20 ?9l + ; 88: 3 23 25* E2+:<: 3 .:53 992++2 ; 253 28<2B 5.28 89B 28<2B 5.280 '0 ##&7 ' MM' :9B 25J B42B ?92 +28 2552* ; 8 52 +28 <2988253 25E2+:<<2B < B 42BB 2B20 ' @ ' 7 -' (!' :9BJ9 J' -/ ! 3 <B:E25?' -5 !)' #' -5! ! #' -5! 7 #3' -5 7 #3" '-' 23 4l95 B 4 . + ?9' 82 3B:9E2 4 58 l 5.25 B 5* ? 8 5! #' 5 '28< J5' 5! ! #' 3 + ' 5 7 !' QE:R' /#. E 3' 3 'Q 5* 2*+:*<'B/ 0 8' ' 2+9' ?9' 25E2+:<<2' IL J' 2+9 '?9' 8 3 E: +2B0 J M2B 95 89@23 <29 44:253 ! '0 c ' Q 5*E2*5 * ; 4 0 ; 42/ 0 < B30 < 882 4l25E25 ; 2.'IL + +5 2.34 42 <: 8:5' 52 3+4.=2 25E25 ; 42' IL B 2A3258 :5' 2 E25342 5:8 4482B380 32BB G+20 25E25 ; 40 ! : 58 GB + 53 ?92 l ; :9B 4 58 ; 28 8258 ++9 ; 40 " '?&7 #' 'IQ J @l29882 E2.' ; : '<:B34 4 5 '3 ' ; 8:50 l95 83B2 25E25 ; 4 l 5E 5 G+2 <: 8:50 '0! ' 0 "' l95 :2 + 25E25 ; 4' ! B22++2 E:98 B2J B420+: 4:4' %'"'++8 52 .:55 88253 < 8 ?92+ 3B 3 25E25 ; 4 83 .=4 4 58 .2 .:29B 3B:< 5:G+2 23 3B:< .= B ; 40 ' , ! - #' E0 'IL 0 $9' '2 ; < B4 .: ; ; 2 < B 95 E25 5' 52 <+ 2 25E25 ; 42' IQ J' 2 ; + 25K E25 ; 4 B48 832 '+'B 8:50 'K # - ' ' 0 $9' 283 <+2 5 42 E25 5' 42 ; +E2 ++ 5.2' 23 2.B 3 ; '25E25 ; 4 ?9l + ' 3 .253B2 l E 5J +20 'K!' ' 28 .:5 288 :58 42 : 0 ?92+?92 25E25 * ; 428 ?9l2+28 988293 .253B2 +2 < <20 "' :B0 " "6 $9' '434 BB 34 .: ; ; 2 < B 95 E25 5' ; :9B0 39 <2B4 8 B: 2 '23 .l283 42 3:3 ?92 E 53 2332 ?92B2+2 25E25 ; 420 ' ' :G+ E90 " ' 3 ?92 B2<B: .=2 9A >9 8 a ' = 52 25E25 ; 42^ '< &' 50 " . ! 'Q 5*E2*5 * ; 2* ; 5/0 ' ' .3 :5 4l25E25 ; 2B B489+3 3 42 .2332 .3 :5

[illegible]

""N

88 82 88 J 21 5*< 8 28.= <2 4&283B2 <B 82 3G' F' ' S 6 8' 2 4: 3 + B2 25E M 23 "' <: 52 : 88 < &' " ' + +9' 4 3 +2542M*E: 98 :9 ' 82B2M : .. 8 :B8 82 B254' =: ; 8*E:+253 2B8 : 9 25E 8 H7 ! ' "F"F ' S 6 8' B:<29E 8 &R . : 98253 3+2 B: R 42 B 5.2 ; 8 3: 932B: 8 & . . :B4 ' ' ' ' %" ' ' S 6 8' 3 8' @2 89 8 253B2 +28 =: ; ; 28 E 8 &283 ; +JB ' ; : R .2B328 23 G 25 25E 8 : ' 7 ' $9' 283: 3+ '829+2 . 982 ?92 ' ! @283G ; :9+3 25* E 2 428.254: 3 "' .2 < B3R ' ; 8 ?92 :B.2+ R 283: 3 42 .2 B2 9' 5:' ' MM' 29A ?9' . :9B253 " &25ER 4: GE253 ' ' ' 7' ' 8 E29B 82 3B29E2 2A.2+2532 " &25E' 428 5 :83B28 25 4 E2B8 B9 .38 42 42 .28 . :53B"28 " 5' "' +R' ' 428 <2B328 3B 9 ; * <= 5328 "' &25ER 428 E .3: B28 5' Y ' '8&:G83 5 ' "' 82 ; : .?92B 23 "' B B2 "' &25ER 428 ; 9+A ?9&:5 +9R 8: 3 - ' ' 8aQ ' >&25J J2: 8 ; 28 = B428 ' E2.?928 G 25 ; : 58 42 . :53B 5.32 23 ; : 58 25ER ?92 +:B8 @2 52 8: 8 GB28.= ' "' .2332 G:9B82 5' Y M' + 9+3 B23 B42B & 5.+ 5 3 :5 E2B8 +2 ; +89R* EB2 25ER .2332 <25+2 5' E "Y ' 28 <= +:8:<=28 ; 28 ; 28 82 428 :53 <+98 3 B4 23 <+98 25ER 42 .2332 =9 ; 29B H & ; :9B 42 + ' J+: B2I ?92 42 59+2 93B2 ' 3 Y ' &9 54 +M :53 "' &25ER +28 958 +28 9* 3B28"' ?9' .= 532B +2 ; 29+A s ' 0 # ('3 B@2' 3& ; 2B R 4:52 G 25 ?9&25E 8 42 ; : 5 . :29B' ' 2&283 ?92+?92 ; 3 ' ?92 4& ; 2B < B . :53B 532 ' 'A)

- ' (! ' :9BJ9 J' -5 ' 5E:+:53 B2 ; 253* X ++:5 2k 8& ; +JB ' 8: 5 ; 9B' 5 'Q8 ; 92332/ <B:E25?' ' -5 ' ; +JB4 8: 49+ 3 5 -5 7 '?9' < B +3 . : ; <:8 42 5 <B E 3 23 W3Q98 :B ; 3 :5 . :53B .32 " 5 (' B 33 .=4 9 8 582B ' k <E:9* +: B' &= 83:B ?92 ; :53B2 + '84B 2 428 8258 ' 4' > -5 ' ; +JB4 + ' E:+:534 42 <9 8 25 B E + 34 42 .2 ?9' 283 952 8:B32 42+9332 . :53B2 + ' E:+:534 42 ?92+?9&95' ' 44B E 3 :5 < B -5 (' 283 ; <:88 G+2 3 53 "' . 982 42 & . .253 ?9' 283 89B35 ?9&"'. 982 49 8258 <B ; 3 '4&259

@* ' Q 5*E / ' 2B ; 2 42 @29' BJ253 ?9&:5 ; 23 9 @29 <:9B 25.="B B 89B8:5' . : ; < J5:5' 5' 3 428 25E 8 9 GB2+ 5 9 =:. o' ' o I 8' 2 ' + 8 +2 < <2 23 +2 <B ; .2 J2B* ; 5' >:9253 95 @29 42 <B ; 2 882M @:+2 & B ; 2 283 +29B E 42 23 &25ER &+3 + 2 3+2 B:R 3 253 +2 JB 54 <: 53 25 8 ' ; 5 ! NN' 23 98 J2 <:B3: 3 E2.' ! '952 . . :9839 ; 5.2 "' + '8 ; <+ . 3R 23 95 25ER 253B2 2+28 "' ?9' 9B: 3 +2 . :B<8 <+98 B:* G9832 23 ; 29A 4 8<:8 s + ' M - ' (! ' <-5 ' M 4 58 +2 8258 42 B E + 3 95 -5 ' 4 3 G5 5 < # ' 3' < ' 3 53 952 .= :82 ?92 &:5 3 4' -5 ' <:9B 325 B 3G32 23 25* .=4B B' &2A2 +<+2 4& ; R:3"'B= 83:B ?92 <B:9E2 ?92 G5 5 ' B 8:5 %' ' Q 5*E * *G+&@ " ; ' J52 4&25E 2 ?92 :5 <293 25E 2B "' ?9' :5 <293 <:B32B 25E 2' 25 25E G+2' ?B8:552 25E G+2 ' O f (' / .-"! ("/*/ "/.-0;&"' *(%' 6 ' 0! " ' ' #0/(
- '$- ? ' 5 * 2B %' ' Q 5*E *4 *@&/ ' ' .3 :5 4&2GE * 42B +2 + ' Q 5*E *44/ k' : ' :9B52B +2 + 9* 3:9B 49 982 9 - '$- ? ' :R' ' Q 5*E 2/ 6' ' LL 6 = JB 5 23 = 52 ?9&:5 B288253 4 9' G:5=29B 428 89.2G8 428 E 53 J28 4& 93B9 ' &25E 2 +2 ; 4<B 8 +2 4 8. :B4 5. :583 53 * ' # ' ' ' E2B39 5&283 E2B39 &25E 2 + ' 44J9 82 5' 3G E' &25E 2 E2.' 8 ' 3B = 8:5 ' > ' " ' 1&, ' 5 "' ' @ +:98 2 283 25 ?92+K ?92 ; 5 GB2 @9832 23 B 8:55 G+2 <9 8?9&2+2 52 3254 ?9&"' . :582BE2B 95 G 25 ?9' 5:98 << B3 253* 9 + 29 ?92 &25E 2 283 952 9 29B ?9' 52 <293 8:9 * B B +2 G 25 428 93B28 ? : 2' F' + R' '25.:B2 <+98 42 J258 8 58 53GB 3 ?92 8 58 25K E 2 ' &; ' BM' 83* + B 25 ?92 &25E 2 :9 5& 33 * ?92 :9 5& 5 2.32 ' ' E % ' &25E 2 +29B :9EB 3 +28 R29A 2&283 95 4G ; :5 ?9' 52 + 882B 25 G2G <<2B 23 ?9 ' 3 B2 . :582?925.2 42 3:9328 .G:828 988' G 25 ?92 + '@ +:98 2 ' 0 (&" ' ' <' A ' :932 @ +:98 2 5&283 <: 53 2A2 ; <32 42 ?92+?92 8:B32 4&25E 2 23 8:9E253 ; G ; G .28 429A < 88 :58 82 . :5 :5425+ &25E 2 9 . :53B B2 283 ?92+?92 : 8 8"* < B22 42 + ' @ +:98 2 &25E 2 23 + ' = 52 8&95 88253 3:9@:9B8 23 82 :B3 253 &952 4& 93B2 4 58 95 ; ; 2 89@23 23 2+28 52 8:53 B2. :55 88 G+28 253B2 2+28 ?9&25 .2 ?92 &952 8& 33 .=2 "' + ' <2B8: :52 & 93B2 " &G3 3 23 "' + ' . :54 3 :5 ' ' &=: ; ; 2 ?9' 4 3 ?9& + 5&283 < 8 G29B29A <:9BB 3 49 ; : 58 +2 42* B25 B < B \' G:5=29B 42 828 <B: .=28 &25E 2 +9' 32 .2332 42B5 GB2 B288:9B.2 - 3G' . :932 2 . :55 8 &25E 2 23 & ; <:839B2 3 ?92+ QA29B JG5GB29A

G.= <<2 "' +29B 5@9B2 9 ' , - # ' 5 5:8 3RB 58 8:53 5:8 E .28 2 <+98 .B92+ 42 3:98 4 58 828 8: ; GB28 . <B .24 2 <+98 " .=2 "' + ' : 8 23 +2 <+98 . = B5G $9' <+:5J2 9 :54 49 . :29B 95 3B 3 2 ; * <: 8:55G 2 G:9BB2 9 42 &28<B 3 ?92+ 283* + 2&283 &25E 2 ' (7# ' > -5 ' 5 <:9BB 3 .2 ; 2 82 ; G+2 B2<BG82532B &25E 2 GJ:BJ2 53 4&952 ; 5 95 JG5 2 E E 53 23 42 & 93B2 : B 53 42 &25.258 "' 95 JG5 2 ?9' 5&283 <+98 ' ' 1&# ' ' # ' LL :G3 ?92 ; 253 ' : 2+ <:9B?9: ' 93* +?92 3 ' 82.BG32 25E 2 2B ; 2"' 42 32 8 GGB:8 +2 . =2 ; 5 42 & 8 2 ' & ' ' ' J' 2 82B<253 +28 82B<253 42 &25E 2 82 4 3 ?92+?92 : 8 42 &25E 2 2 23 42 828 :29EB28 ; + J528 23 <2B 428' 2332 2A<B288 :5 E 253 42 + ' ; 5 GB2 4:53 +28 <:2+28 +28 <2 53B28 23 +28 8.9+<* 329B8 :53 B2<BG8253G & 5E 2' "J33 + '8: ; GB2 5E 2 ' &:2+ 3 ; 42 23 +:9.=2 2B8 53 89B +28 + 9B 2B8 +28 <: 8:58 42 8 'G:9.=2 9 ' K -# ' .= 53 E' LL] G* 8 B 42 @:9 B 4&95 E 53 J2 < B2 + "' .2+9' 4& 93B9 ' $92 39 3: ; G28 9 <: 53 42 ; 2 <:B32B 25 2 ' K!# ' N ' $9& 9A =:5529B8 42 3' ; :B3 @2 4: 8 <:B32B 25E 2 ' K"# (' E ' >2 <:B32 <29 4&25K E 2 "' 8 'G:552 :B3952 ' <" ' ' ' >& ' <3G 42 ; : * ; G ; 2 23 >2332 95 .2 + 4&25E 2 9B .29A 4:53 5:3B2 J92BB2 ' . :589 ; G + ' E 2 ' K!# (' 0 ' 3 .2 < R8 8' G2 9 ' E2.' 95' .2 + 4&25E 2 283 3:9@:9B8 B2J B4G ' 1 " ' ' 0' > ; 8 42 3 53 42 8: 58 ; 5 28<B 3 J 3G 2 <:B3' 3 53 4&25E 2 "' 8' G+ : 3G ' & / ' E "' ' +2 52 E293 < 8 ?9&:5 B2J B42 4&95 :2+ 4&2GE ' + ' <B:8<GB 3G 4:' 8:5 BGB2 ' 1 # ' R"# "' ' # / ' ; :B3 :9 3B 9 ; <= 53 39 2B 8 ; :5 25E 2 ' D#7 ' ' N' ' B2 25E 2 2A. 32B &25E 2 +2 428 B' 3 ; :5 4283 5 4: 3 B2 29B 2 ' ? & ' : 5 ?92 +29B 4283 5G2 5:98 882 25E 2 ' 8 :' # " ' @ 7 ' ' 32BB2 58' 42E 53 952 ; J2 428 . 29A 3 +2 8G@:9B 42 =: ; ; 2 2 +3 3 25E 2 9A 4 29A $$$' # " 'E ' E H &:4 29A 4&952 .=:82' 2 ! 28 ; 28 5& E 3 B 25 :9G+ G <:9B @232B 89B ; : ' 3:932 &25E 2 42 + ' . :+98 :5 E2.' +28 2552 ; 8 42 & * 3 3 ") ' J G8 B E:+:53G' 5 3 5 <:9B 8 3 8 B2 "' 5:8 + .=28 25E 28 :98 < 88:58 <BG8428 B: 8 3:93 +2 32 ; <8 42 5:8 E 28* ' 8:9 B B 428 ; G<B 8 "' <+:R2B +28 J25 : 9A ' ' & E8 ??2 :5 ; & ' 4:55G ' ; & ' 3 5 +3B2 &25E 2 23 +2 + : 8 B 42 B2 .2332 <B: ; 25 42 E: ' + ' F7' :98 5& E2M <9 :B ; 2B 952 8' 5:G+2 25E 2 ' 0 ! ' ' :98 93B28 882BE 8 "' 5:8 + .=28 25E 28 9B 428 G+258 < 88 J2B8 5:98 : . .9<:58 5:8 E 28 ' ! - ' ' ' 58 <:9E: B 8 3 8 B2 "' +29B8 E 528 25E 28 6789' ; ' 2 ?92 R293 + ' B :5 & ; :9B ; 2 +2 42 254 3 ; &25 'G2 25E 2 ' ' ,&" ' E ' 2 ; <+:B2 "' JB 548 .B 8 +2 2B 23 +2 <: 8:5 :98 829+ E:98 +9' <:9E2M BB .=2B .2332 25E 2 ' D"#' ' 0' $9: + E:98 52 <2B4B2M <: 53 .2332 .B92+2 25K E 2 H42 E:98 4:552B + ' ; :B3I ' 0& " ' ' &2=3* + < 8 8 58 B2JB23 82.:54G ; :5 25E 2 ' ' 6' 3 0 C' ' E: B 25E 2 E: B 4G8 B ' >2 ; & ; 2 95 <29 ; : * ; G ; 2 235& 9 < 8 JB 542 25E 2 2E:58 8 .B +2B +2 B2<:8 42 ; ' E 2 ' &! - ' ' ' :9B ; '@2 +2 . :5 2882' ! :B:5 .2332 932 ; & ' .=:?9G2 23@& ' 3:9K 328 +28 25E 28 49 ; :542 42 &25J J2B <:9B 3 G 33B2 95 <29 8:5 <BJ92 + ' 0# - ' "> * ' +9 '>& 9B 8 3:932 &25E 2 49 ; :542 42 E:98 .B: B2 ' 0 7 ' ' E: 8 E2M25E 242 BG<:54B2 "' ; 28. 982B 28 8 E'% 7' '2+2 52 +2 3B: ; < 3 2+2 25 E +G 25 25K E 2 # ' H# ' F' + E 3 25E 2 4& +2B 82 @232B "' 8:5 . :9 % ' , " 'E ' LL 'B2 25E 2 82 4'3 428 . = : * 828 ?9' 2A. 3253+2 4G8 B' 28 JG32 9A ?9' +9' 8 253 JB 542 25E@2 E'@' ' P ' 4' LL G8:+9 ; 253 28 B9 38 ; 4B8 "' B2 25E 2' LL B2 25E 2 4&95 :' . = :82 82 4 3 42 ?92+?9&95 ?9' 2A. 32 25 95 93B2 +2 4G8 B 42 .2332 .= :82' :98 52 42E 2M <: 53 ' ; 2 ; :53B2B ; ' G:552 :B3952 <:9B ; &25 B2 829+2 ; 253 25E 2 c' = ' 9 N' ' :B.2 42G 82B E:98 ; &2= 2B 2M 25E 2 BGE2 ' A ' E N ; d&J' G4 3 / ' D ; <2B* 8:552+2 ; 253 ' + ; 2]<B254 25E 2 @& 'E:+:53G4G8 B' = + 8 B2 <+43 9 . 2 ?9& + E:98 2=3 <B 8 25E 2 2 ; 2 + 882B 25 2B82 G 54:552B ' ; R 2+ ' @! - ' + ' 4 29 8' 42 ; E 2 >2 E:98 B <<2+2 23 ?9& + ; &25 <B2552 25E 2 ' % ' E ' ; 2 <B254B 3 25E 2 25 ; :5 @9832 . :9BB:9A 2 ; 2 G 33B2 ; : * ; G ; 2 23 ; 2 4:552B .253 . :9<8 ' 0 ' " ' / 882B 8:5 25E 2 82 8 3 8 B2' :9B 95 ; :93:5 <:9BB <:9B ?92+?92 .= 25 G BJ529A :53@& 9B ' <88G ; :5 25E 2 ' % ' % ' N $92+?92 : 8 @&25 < 882 ; :5 25E 2 8 E' C7' LL B2 < 882B &25E 2 42 ?92+?92 .= :82 25 G32B+2 4G8 B' >2 E:98 25 E29' B2 < 882B &25E 2 ' 0 ' 5 "' ' &25E 2 ; &25 283 < 88G2 @2 5&25 ' <+98 +2 4G8 B' ' 5E 2 8& <<+ ?92 988' 9A 4 GB2538 G28: 58 . :B<:B +8' 5E 2 42 ; 5J2B 42 G: B2' ' 8G2=2* B2882 49 J:8 2B 5:98 3 25E 2 42 G:@B2 ' A

M' 9+ + "%(/1":2-%0-% &"! "' "/ .-"' ' ' & ! ' "' :98 E :58 3:98 25E 2 42 <+29B2B 8 E' " 7 ' / .-" #" .*+-' ' /0!(; " ' (*!& ; ."+"/% #" 2*"!' ' G8:+9 ; 253' =2M +28 25 538 E: B 25E 2 4G8 * B2.' 42 B2 828 5G.288 3G8' LL 5E 2 42 2 ; ; 2 JB:882 :9 8 ; <+2 ; 253 25E 2 4G<B E 3 :5 42 & <<G3 3 ?9' . :583 392 +2 < . 23 ?9&:5 :G82BE2 89B3:93 .G2M +28 2 ; ; 28 25.2 5328' LL ; + GB2 ; 253 23 J' 5E 2 42 2 ; ; 2 JB 882 3:93 4G8 B E ' 23 89G 3'@LN6 : ; ' 4:55G "' 42 <23 328 <:B3 :58 42 <2 9 ?9' 82 4G3 .=253 93:9B 428 :5J+28 23 . 98253 952 882M E E2 4:9+29B ?9 54 :5 +28 BB .=2' LLO6 : ; ' 4:55G "' 428 + .=28 ?92 +28 25 538 <<:B325325 5 88 53 23 9A?92+28 :5 8& ; J 52 3B:9E2B 42 + ' B2882 ; G+ 5.2 E2.' .2BK 3 58 :G238 4:53 + ' ; GB2 '29 25E 2 <254 53 'JB:8* 82882' 28 25E 28 8:53 . : ; ; 2 428 59G28 ' :5 R E: 3 .2 ?92 :5 E253 ' ' 1 ! - "' (!# ' !#/ ' 1<7) 5# ' 3' ! ' <' " 4 58 ' ! B:E2 G2' + E 93 ; 29A B2 25E 2 ?92 <3 G - ' RJ8' 8A1 ' 53 ?92 +2 @ +:9A 283 829+2 ; 253 @ +:9A 42 .2 ?9& + <:88G42 + =& ' B 25 42 . : ; ; 95 E2.' 25E 29A ; 8 ?9 54 + @ +:982 9* B9 +:B8 + R ' "' 4 83 5J92B ' &25E 2 283 95 8253 K ; 253 42 = 52 2' 42 .= JB 5 "' + ' E92 42 .2 ?9' 283 +2 G 25 4& 93B9 + ' @ +:98 2 283 95 8253 ; 253 42 .= K JB 5 42 E: B 25 93B9' 23 95 4G8 B 42 E: B "' 8: ' +28 E 53 J28 ?9&95 93B2 <:88G42' 2 @ +:9A 283 E: 8 5 49 B E + &25E 29A 283 : 8 5 42 &2552 ; - ' ! ' S 6 8' 3 5 :83B2 J253 ?9' 4& E: B :93 25K E 2' :52' < ' "" C' 28 4:9M2 < B8 ?9 '8:53 ; :B3 < B 25E 2 3G' < ' "%"' ' ! 8 ?9 53@& 9B '42 E:98= B 25E 2 1!7 ' "' ' ! 8@G4& ; :B8 52 ; 2 <B254B 25E 2 (' ' . ! - ' 4' BM' 9258 G 93 H+2. : ; 32 = G 93I' 4:BG 4&25E 2 2 2+ :5 2 B233G 2 B2 .=2E +2B 2 &28328 25E 8 E:98 ; 2 + :8G ' ' % ' . ! - ' <' "FC' H +I $9' <+98 :<3 28 ; 2 + + ' 3 5<:5 23+& 5E 2 @ B 'SS' ! 8 <+98 :B +:8 5J 2B?9 ' 42 :98 :53 5E 2 ' AAA L' 23 M 283 . + .9' + ' 25E 2 : . 3 ?9 B + 328* ' ; :5J23 ?92 + ; 25B2 H<+98 <23 3I 283 42 .2+9' .9' + <:B323 25E 2 ! ' <' %"C' LL A 6 8' 5E 2 49B2 3:M @:BM 23 82B 3 53 . : ; 2 + ' ; :5428 49B2B ' C # - _RM' 5 # ! ' 2 :5 28+ 3 &95 42 .28 429A = 98 = :K ; 28 + ' 93B28 25 9B ' 8' JB 53 25E 2 ?92 + 25 ; 25B ' H2 ; ; G52B I 3:9328 ' J253E #' . A' + 9B253 G:5' ; ' 8 58 ; + 23 8 58 25E 2 2B38 ' 3 + ' 93B28 H293 5: ; I # 294B 58 9 23<+2 58 4&25E 2 ' 0 ' S 6 8' Q 283 25E 2 ?9' 283 3B 8328.2 44* G 25 4& 9* ; 3B9 " ' < & ' "N' ' 6 8') '828 < B:+28 &42 828 B9828 42 828 +8 H>2 5 ++2 ?9' 2A. 3 3 +28 82B 8 .253B2 +29B8 82 J529B8I 9B253 E 8G8 23 5 :B* ; G83B:< JB 54 :8:5 42 ; 25928 J258 25 + ' . 3G 42 :54B28 ?9' E: 253 25E 2 89B +28 B .=28 23 89B +28 5:G+28 ' / ' + ! :9328 .28 J92BB28 66 ; 9B253 < B 25E 2 ?92 +28 G:5528 E +28 42 + 54B2 E: 253 &952 89B & 93B2 ' ' ' 5 4 3 25 95 . : ; ; 95 <B:E2BG2 ?92 25E 2 25 ; :9B93 ' ' M' :9B ; 2532M ; : ' 42 <+98 :B3 25 <+98 :B3 :9B 2= < 882B 3:93 "' . :<E:83B2 25E 2 ' ? ' 1& -N ! - ' H = BJ2I' 42 3:9328 G:5528 E 5428 ?9' :53 25ER2 42 G: B2 ' ' :' LLAE6 8' 25 283 EB R ?92 3:932 ; ' E 2 @& 9B R 25E 2 ?92 @2 52 <9 8 B2 <:9B +9R : .2 < B24 9 E:83B2 '+ ' AAE' ' E:98 EG8 25E 2 ?92 @2 E E2 @2 E:98 <B 2 ?92 @2 8 .=2 42 E:8 5:9E2+28 < ' + +9' B2 B: 4 B ' &25E 2 42 8& 33 .=2B 9 <B 5.2 ' ' "NC' ' " E:98 E2M 25E 2 ?9& + .B J52 + ' =:532 52 &R 25* 49B: 882M < 8 ' "F ' & ; G 3 :5 2 42< 3 23 25E 2 & J 3253 . : ; ; 2 5 9+3B2 +: ' C' &25E 2 42 E: ; B +9R 283: 3 < 8 G2 B: ' E $9& + ++: 3 ; 29A +28 B2 ; :9B B 3:98 429A .2<254 53?92 .2 +8 25 <:9E: 3 <:B32B &25E 2 H<B254B2 & : 4 29AI ' ' ' Y' 5 + 8 53 +28 .38 =2B: ?928 428E ++ 538 =: ; ; 28 + +29B <B254 25E 2 4&25 B2 42 82 ; =+ G+28 $ ' 0 'AE M' :B3952 4 + R 53 @98?928 "' 95 93B2 32 ; <8 2A2.93 :5 42 &25E 2 ?9&2+2 <:B3 ' "' 95 8' 5:G+2 2A<+: 3 ' 0 & ' C H 2E 5I 4:9.2 + ?929B +2 <+ 8 B42 ' E 2 $9' 0 ' /"2%0" 4*'%"' ; -" /' 4"!' #!" / .-"' " ') ' . -/ M' 5 # !
- ' (! ' B:E25 -5 ' 5 ' 5 3 91+1 ' -)' 5 ; 3 & -1>3' &3,+%81A -,2+' +3,&E1A +1 ' -5 " ' %4 1+ 3 -5 " ' ; / -F' @ ! +* ' ' Q 5*E *G G2/ " " ' LL 6 S ?9' :5 <:B32 25E 2' 29A ?9' :53 G 25 ; GB 32B 253 829+8 4&G3B2 25E G8 8& + =&R E + 25. :B2 95 ; 2 +29B < B3' "' <B254B2 ?9' 283 42 B2 ; 29M ' ! ' = G95 GB 42 4&95 5A G.+ 3 9A R29A %& ?92+?92 93B2 .G .95 283 25E G <254 53 ?9& + 283 +9 * ; G ; G 25E 29A ' D! -& 7# ' 4 58 ' ' S ?9:' :5 <:B32 25E 2' 28 @:9B8 3:9@:9B8 " <+ 54B2 23 3:9@:9B8 25E G8 ' D# ' 5 F' %@&G* 3 8 4 58 952 42 .28 <:8 3 :58 25E G28 4:53 J9 . :5* ?92 ; 2 "' B2 95 BG+G 82 <BGE 93 3:9@:9B8 E 4:*

; 2 30 @ 'E' :988' = ' ' ' 'E5 'LL 52
<+ .20 3B:2 <:8 3 :5 G 25 25E '20 4'8 BN2 42 3:58
0 h 5*E * 0 + 20 ; :9 ++'28/0< B2'
" '4&25E 2 + B'LL 6 2E259 B 29A4 58' 52 < 9*
EB2 2 ; ; 2 25E 2 ++ 2 '58'+' ; 8 B2'' SNF6 J' $9' '
.:53B . 2 < B+2 +:5J 32 ; <8 ?92+?92 G 3942 G:5520
:5 ; 9B 82' 28 <'.=29B8 +28 <+98 25E 2 ++ 8
' B:<'3:' B2 25B B:552B + '3 G+2 42 > 898*
=B 83 42 <4.=29B8 25E 2 ++ 8 8:B3 53 2 +29B 5 ; 20
@ 3G 3 ' ++5E' 2B40 25< B+ 53428.=:828 52= 52
25E 2 ++ 2 25 95 .:29B 4 +:R +0 ' A ' " '
1&# 'BE0 ' ?92++2 ; + 4 2 < B + <8 42 32 ; <8
5 39B + 8N20 + 5 2832 ; 253 25E 2 ++ 2 23 R 53 <B 8
4B: 3 42 G:9BJ2: 8 2 .=2M +9 0 ' A ' " ' 0!7#('
0 ' '49B2+N 49 .:29B 23 &2BB29B 25E 2 ++ 2 H.=2M
'' <B:3283 538+0 '% '3' E 0 <' N: 0 N4 3' e +.*
\25 2B' 5 .:29B ?332 428 < 88 :58 25E 2 ++ 28 :53
+ G+0 6& ' ' ' +98 +29B8 <+ 28 8::3 25*
E 2 ++ 28 23 44828< B4280 ; ' '9 "
'Q 5*E '6 B 0 ' ; :9 + 2280 23 5:5
5*E G*R B/' NN I ' 5' 2E25 B E 29 '4 58' 'B *
J929B 42 828 +:380 <B 8 3 53 42 + .25.20 24:552B '
+2 .:29B 6'+' G+2 55:.25.2 $92 424 58 +' ; 8GB2
:5 8 3 25E 2 ++ B0 '50 +' LL B - ' ' B2
< B 33B2 E 29A' 2332 .: 9B2 &25E 2 ++ 3'L@ ` &25*
E 2 ++ B0 W'# a ' 2E25 B E 29A' ! :5 "J20 E 53 +2
32 ; <80 < B ; 28 ; 9A 8&25E 2 ++ 30 # ' '
3 -' # 0 A 6 80 >2 89 '@92528 23 <9 8 25E 2 ++ 0 23
:5?928 52 E '@9832 : ; 2 42J92B< '42 290 0 7 # '
2"N' B2 29A0 35 28 958 ; 2 8 ; 28 H95 ; " ; 2I
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< 8 9 8: B 25E2 ++ 28P 98 ' <92253 H<29E253I 283B2
.92 ++ 28 32A H32++28I +2 8: B .: ; ; 2 +2 ; 5 H+2 ; K
3 5I0 ' 8:323 ' :G2 ?9 ' 2 ; < B2 < B E2B8 :9 < B
25E 28 B0 'A@?3 @ 0 ' *E AE6 8 ' >2 3B:9E R 95J
<29 +2 B:R 5:83B2 ; 83B2 25E 2 ++R0 ' ' '
'O I 8' 2 42B5 2B 42 .28 B:R8 93 .= 88N 42 8:5
83 30 23 ; :9B93 :5 2A + <BG8 R 283B2 25E 2 ++ 0
? ' 9 ; 0 F' 2<9 8 95 +:5J 3B .3 42 32 ; <8
@2 ; 2 89 8 25E 2 ++ 0 ; 38 a8 J 0 6 ' E0 7+
' ' < - ' '5 A#
3' + + G3 + ' V 5*E G*++ *82* ; 50 '
; :9 + 228/0 ' ' & .3 :5 4&25E 2 + BP +2 B48933 3
' 42 .2332 .3 :5
-' 'O I 8' 988 '.: ; ; 2+ 'E2B39 49 .:B<8 25*
E 2+++ 830 988 ' 25E 2 ++ 83 + ' E2B39 42 + ' <258"2 '
.283 25E 2 ++ 882 ; 253 "' E25 B ' ' ,& ' " '
! ' O I 8' :932B 42 + '.:53 592++2 89 8 5.2
42 + '32BB20 .B 532 42 8:5 25E 2 ++ 882 ; 2530 : ' '
0 "N
? -' # ' > /
' 'Q 5*E *4/0 @&25E 80 5:98 2=E :580 E:98
25E 2MP ?92 @&25E 20 ?92 5:98 25E :580 ?92 E:98
25E 2M0 / ' 'LL 6 <B:9E2B25E2B8 ?92+?9&95 +2 825K
3 ; 253 42 &25E 2' 8 25E 253 3:98 .29A 3 ?9 ' :5
4:5520 ' ' ' >2 5&25E 2B ' <2B8:5520 23
<2B8: 52 52 ; &25E 2B 0 ' -!-'LL 6 <B:9*
E2B <:9B ?92+?92 .G:82 +2 8253 ; 253 42 &25E 2' 2
?9 'B254 3 8 ' 3 E29B <+98 8 5J9+ GB20 .&283 ?9&2++2 52
93 5 ' 25E "2 5 ' 3B E2B8 2 23 ?92 <2B8:552 :&25 93
E .3 ; 80 ' .7 ' 5 0 L 5E 2B ?92+?92 .=:82
= ?92 ?9&950 4'8 B2B <:88442B .2 ?9& + <:88G42' '
+ ' :B3952 ?9 ' ; 2 3 E 5.B2 < B3:93 ; & ..: ; < J52
' 25..:B2 9<B28 42 E:980 @2 5&25E 2B ' < 8 "' +2A 5K
4B2 3:9328 828 .:5?3+ 3280 ' + ' C ' ! : ' ?9 ' 2=
3:932 93B2 :.. 8 :5 ; 2 B @:9 8 42 E:8 E 53 J28
<+98 ?92 428 ; 258 <B:<B280 23 ?9 ' 52 E:98 25E 2
< 8 E:3B2 28<B 30 E:3B2 8. 25.20 5 'E:3B2 B4<93 >:50
@2 E:98 <:B32 25E 2 4& E: B N 2 =9 3 @:9B8 E2.' ! ' 42
+M .0 5 3G ' " N ' >252 E 258 <: 53 . ' < B42@ 3:9828
+ B ; 28 :98 25E 2B 95 .:29B ?9 ' 82 B254 "' E:8 .= B*
; 280 ' 54B ' 9 0 '824 3 988 ' 428 <2B8:5*
528 ?9&:5 4 8 B2 <:88 42B ' $9 54 95 =: ; ; 2 '
; 4B 34 4&23B2 25E 2 "' 8:5 < B3 ' < B .29A ?9 ' +2 .: ; *
G 33 .530 + '3:9.=2 "' + 'E2B 3 G+2 J+: B20 ' C
' C>,/ ' ' E0 <' F7 'LL 0 :9= 32B0 8 58 23B2
25E 29A0 .2 ?92 ?92+?9&95 <:88248 ' 5E 2B + ' = 932
+:B3952 42 .8 ?9&95 ' 3 .2 8:53 .28 <+ 8 B8 23 .28
<+29B8 ?92 @&25E 20 ' ' ' 0 ' :580 5&25*
E :58 <+98 8:5 54 J52 .:5?9232 0 5 ' 54B ' 0 " '
58 ; :5 3B 5 ; <=2 =29B29A @&25E 2B ' <29 +28 8 2580
' @ # ' 0 "LL ' 82 4 3 988 ' <:9B 428 B2B '
: +"' +2 <:832 ?92 @&25E 2B 8 +2 <+98 'LL"6 2 < 8 .*
2:B42B0 B2 982B ' G3 4283 58 2552 ; 8 $9 ' ; &25E 2M
+2 G 25 ?92 @2 ; &23 8 <B: ; 380 ' .!"!/ ' E0 " '
!&25E 2B2M*E:98 &=:5529B 42 ; :9B B "' E:8 R29A '
5 ' 3.: ; ' 0 3' ' E:3B2 + 29325 53 ; &25E 2B 2M*
E:98 +2 5: ; ' ; '@ # !# ' 0 ' :534 ?33 ' ' 4:55 '
&23B2 9A <+98 .:G+280 23 52 & ' < 8 E:9+9 25E 2B 3A
; : 54B280 ' ' " ' : + ?92 8:5 .:29B @ +:9A
4D3 52 98 2B2 2B3 ' 5E 3 "' 5:8 R29A 8 ' 5 88 532

G2 9340 " ' ' ' 0 ' :9B?9: ' ; &25E 2M*E:98]
& B?92 E:98 B28< B2M^ ' 4B45 'BE0 ' '3 ' = 52
; &25E 2 95 89<<+ .2 8 ' 4:9A0 '0 '50 N' LL 58
95 8258 + 3 5 ' 2 . 2+ 5:98 '25E 4 .2 JB 54 =: ; ; 20
.&283*"*4 B2 .2 JB 54 =: ; ; 2*283 ; :B3 'LL%] &25E 2B0
W ' #" ' 2 <:B32B 25E 2 &95 " & 93B2 ' 28 429A
=: ; ; 28 8&25E 253 23 82 :53 +2 <+98 42 ; + ?9& +8
<29E253
- ' ! ' 28 JB ; ; B 258 :53 <B 32549 ?9&:5 '52
4 8 3 < 8 .:BB2.32 ; 253 25E 2B ?92+?9&950 ; 8 25K
E 2B ?92+?92 .=:82 0 23 ?9& 9 + 29 4&25E 2B ?92+K
?9&950 + ++ 3 4 B2 <:B32B 25E 2 "' ?92+?9&95 ' 2332
4 . 8 :5 283 ::53B24 32 < B + ' B9R B20 :53252++20
:+3 B20 ?' E 53 29A < B ! :53 J520 ?9 0 E2.'
25E 2B0 :53 ; 8 +28 <2B8:5528 9 B J ; 2 4 B2.3 ' 5
52 E: 3 4& ++2D9B8 9.952 B 8:5 <:9B + ?92++2 .2 B K
J ; 2 52 42EB 3 < 8 3B2 2 ; <+:R
- ' ('o I' 8 ' >&25E 2 .29+A ?9 '8. E253 8& <<B *
E: 82B 9 ; : 54B2 42 +29B8 82BE 329B80 ' '
CF ' + E: 3 28.B <3 G2 9.:9< 4& 9+B28 E 280 ?92
& 5@9B2 49 32 ; <8 5:98 25E 280 ' 0 6=F '
Y ' >2 <:B32 25E 2 '3 ' ; :B30 3:50 <9 8?92 %! ' ; & 8
25E ' + ' J+: B2 42 3& E: B 8 9E ' + 'E 20 ' ' % '
F7 ' &283 JB 54 ; + 4&283B2 ; 82B G+20 ! 8 .D283 JB 54
G 25 4&283B2 25E 0 ' 3,
' ' B:E25: ' / ' . 3 + ' / 6 ' 28*
< J5 ' / ' <:B39J ' / 6 ' B3 + ' / '
4&95 G 8*+ 3 5 / ' :55 '42 / ' 25E 20 42
/ ' 42 50 250 23 / ' E: B b A2B +28 R29A
89B0 .: ; ; 2 3 &25E 29A
,H ' 'Q 5*E * /0 W ' 5 ' B ; 2 42@29 ' >:92B
<:9B E: B ?9 ' 9B ' +2 <: 53 +2 <+98 = 93P B2 95
25E
- ' # 0 A5 6 8 ' ' 32832 :42 B:@ H +8I ; 23253 "
&25E 2B0 5JB ' 52 9 2 ; :53 5& ' E:9B253 :G+ 2B0
' %& ' E +0 C " ' LLAE 6 8 ' $92+?928 : 8 +
<+ +83= ' + ' :B3952 25E 2B 89B 5:8 ; B .+280 ' 0
N ' b
K ' > / ' P <B:E25?0 / ' /
> S0 'Q 5*E *2 +0 2 3*M&/0 6 'LL+]$9 '
<B:9E2 42 &25E 2 ' B2 25E 29A 49 G 25 4& 93B9 '
5 28<B 3 25E 29A ' 5E 29A &95 42 & 93B20 +8 ; G*
5253 3:93 < B GB J920 ' ' 50 " ' 5 283
@ 29A 42 .2 ?9&:5 <:88 42 23 25E 29A V32 .2 ?92 <:8*
8 4253 +28 93B280 ? '#4 ' C>,/ ' '5 0 <'
' 4 58 ' :98 <B 32542M 3B2 @ +:9A0 23
E:985& 328?9&25E 29AP .2332 ; <B 82 BB E2 8:9E2530
' 9 ' % , ' ' ' ' :0 ' ' '
' 9G83 53 E2 ; 253 ' 28 25E 29A 5&:53 @ ; 8 42 B2K
<:80 > ; 8 95 25E 29A 52 < B4:552 9 ; B 320
' # , ' E0 ' :8 25E 29828 82 .:5 B ; 253
4 58 +29B ; .:532532 ; 253 23+29B 42882 50 ' % '
0 4* ' 0 <' C" ' 28 25E 29A ; :9BB:530 ; 8 5:5
@ ; 8 &25E 20 ' :B30 E0 ' 3 8:5 3B:< 42 +9*
; B20 ; <:B395 53+28 R29A ' 2 828 <B:<B28 ; 8
?' 3 428 25E 29A0 ' " 'E * !: * ; ; 2 4:53
+ ' J+: B2 .' ; : 58 B < 5492 28 <" 28 25E 29A 52
G+288: ' < 8 + 'E920 ' 1 ' *E J $9 ' ' +2 . B .3 B2
4: ' &25E 2 ' 5 B2J B4 25E 29A ' $92++2 G32882 "'
; : '4&25 .B: B2 95 9B 29A $9& B ; 2 .253B2 8:5 B B2
95 42882 5 25E 29A ' ' ' '5 0 " 'LL 6 8 B29A '
5E 29A 4& BB 32BI +2 . B5 J2 23 +28 ; ; 280 '
' ' E0 'LL"0 $9 ' 5& ..:B42 < 80 ?9 'B2 982 '
5 < 88 53 5.:559 3:9.= ' 42 .2332 25 5:2 ::3 95
83B2 25E 29A .:54 ; 5 3+ 5 88 5.20.: ' C> " '
! ' ' $92+ 4 ; :5 25E 29A !& 'B2 98 ' &=:5529B 42
; :9B B "' E:8 R29AC ' ' ' ' N IL J5 2B ' 4 3
25 .2 8258 25E 29A 89B0 .2 ?9 '5 e < 8 "' ; 32B ' '
+2 . 2+ 5&2 +3 3 ' 89B ; :5 G 25 25E 29A0 PA/ ' E '
& 83 95 B.G +8 ; 20 .: ; ; 2 := <293 E: B "' D= 83:*
B ?92 ',
- ' # 'A#6 8 ' 2++225E 2982J2530 , " '
&25E 29A & E: 253 @9B 0 2 ; 2 59 B: 253* + 52 530
3G0 ' A5 6 8 ' ; 20 ; :B8 52 82 4 J52 <B25K
4B2 .28 ' 98 2: 5328 :BJ9 ++2A0 28 ; 284 8 5M0 .28
25E 2A0 $9 ' ; :B8 52 82E253 E: B0 = ' ,'*
3 8 .G 8?92 ; :9+3 ; & JB 0 $? 53 :B3: 8 2 ; &25
<B 0 3 ; 2 4 83 ?92 @2 . B:+ 882 H4 58 882I0 B42
. B: 2 60 82 @&:8 8820 83: 2 25E 298 23 8:B<B 80 '
< ' ' o I' 8 ' 5 4 3 25 95 .: ; ; 95 <B:E2BG20
23 E: B 2830 ?92 :5.?928 25E 2 52 ; :9B93P @2 +2 B *
; 253: 80 <:9B3 53 ?92 < B 5 39B2 5J+: 8 8:53 3B:<
25E 29A 89B +2 G 25 4& 93B9 ' 23 53 3:9@::B8 283 0
-((' '50 ' + 5&283 .=:82 ?9 '8: + <+98JB 2 E2
"' &25E 29 ' ; 9E 8 ?92 42 E2: B 42E 53 8:R :9
42 :9 B +:92B +2 G:5 23 E2B3929 P ' , ' 50 " 0
! J 8 ' >2 52 89 8 < 8 89B E:83B2 82 25E 29A0 ; '
7 0 50 C0 * ' 28 25E 29A0 6+ ' 9 '
"8 ' &2:E 2 52 ; :9BB ' @ ; 80 35 8 +28 25E 29A
; :9BB:530 ' ' ' ' ' " '
/ 1 ' .R 3: ; G ' 8:5 .:B<8 H4&+. B2I 42J B5R 42
<+9 ; J20 88 :3 3:98 GB E28 .:89B8 42 8 ' .=932
25E 29A0 '& , ' "" 4 '

' ' 2BBR0 -5 !7 Y' -5 !7 3 <B:E25.' -)'
5 ! ' -5 /! ' -5 ! 3 . 3 + ' -5 ;! 3 28< J5 '25*
5 " ! !3 <:B39J ' -5 ;! !3 3 + ' -5 " ! !3 49 + 3 5
-5 " ! 7 ' " ' -5 " 'QE:R ' 9 @ ' 58 +28 ; *
598.B 38 42 32A328 4& 5. 25 B 5? 8 + 5&283 < 8 3:9*
@:9B8 . +2 42 4 83 5J92B -5 7B ' ?9 '8& .B 3 -7 7 '
?> --7 7B ' ?9 '8& :B 3 988 ' -7 7 ' 23 ?9 '8 J5 2
=.=29A0 ; .= 53
3' 'Q 5*E *+ *8&/0 ' ' 2B ; 2 42 G:3 *
5 ?92 ' BGB2 42 ! 4 J 8. B Q8:B32 42 G: 8 4& G 52/
+ 0 c 'Q 5*E *5 0 5 2/0 " ; ' $9 ' ' <B 8 &:*
429B 49 E 50 25 < B+ 53 4&95 E 82 ' 52 .B9.=229*
E 5 2
%' 'DO/@.-@/ E ' %E ' # ' 0+-" #" .-7/"('
0226!("/.-/" /*(2*%"0!: ' " ' 8C 75# ! & '
%' 0 < ' N%0 "F N
' ' 5 "0 23 5 -
'Q 5*E *B:5/ 'LL 0 0#" ' 58 +2 E: 8 *
5 J2 42 ' 52 <23 32 J+ 542 8 39 2 25E B:5 +2 ; + 29
42 + '89G83 5.20 " ' K! 'LL + 82 4 3 988 ' 49
E: 8 5 J2 4 58 +2 32 ; <8 ' 5E B:5 .2 ; ; 2 32 ; <8 +28
.:589+8 9B253 42 +23:9B "' : ; 20 ' + ' AAA ; 6D
5 ' " ' , ' + 5 ' .= ' ' >2 ; 2 8:9E 258 4D E: B E9 25K
E B:5 +2 ; : 8 42 ; ' " 'D C !# 'A' &283*"*4 B2
25E B:5 &"' 32 ; <8 $92 3:93 ; 20 ' ' ' -. '
' 2 93 25E B:5 2"' 32 ; <8?92 ' ' K ' '
5 A J:B20 &95 428 <+98 ++983B28 <= +:8:<=28 42
& 53 ?9 3 0 5 ?9 3 "' M: ; 5280 4 58 &+:5 20 25K
E B:5 + : A 532*4 A ; 2 :+R ; < 420 23 93 4 8. <+2
4& 5 A ; 520 'K ' !- ' + E 'AAE 0 ' < B30
26 ' " ' 5E B:5 + ' 529E ; 2 =29B20 9 ' 0 ' 5
' 5E B:5 .2 32 ; <80 @2 3B:9E ' "' ; 2 <+ .2B 3B 8*
E 53 J2982 ; 2530 4 ' ' " ' 0 M ' LL ' ?"5 ' '
<29 <B 80 95 <29 <+980 95 <29 ; : 58 ' ' R ' 25E K
B:5 E 5J3 58 ' + R ' ?9 3B2 .2538 B 5.8 :9 25E B:5 '
' = 9329B 42 2 ; :53 .9+2 283 25E B:5 42 ?9 B 532
< 248 ' ' 42 ; 29B ' 89B +2 .= ; < 42 G 3 ++2 429A
; ++2 =: ; ; 28 :9 25E B:5 ' 52 B ; 2 42 4 A ; ++2
=: ; ; 28 25E B:50 :9 4&25E B:5 4 A ; ++2 =: ; ; 28 '
'B B .3 :5 4&95 B R:5 ?9 0 42 & B0 253B2 4 58
&=9 ; 2 B ?9 9820 283 "' <29 <B 8 .: ; ; 2 "' "' 0 4 58
+2 .B 83 ++ 5 .: ; ; 2 ' "' ' 4 58 &=9 ; 29B E 3B 2
.: ; ; 2 ' "' A :9 25E B:50 ' . 6 ' " #('
7# ' >! '3 ' +R0 < ' " 0 4 58 "
- ' ? ' & . 4 ; 2 52 4:552D< 8 -5 #!- ' <B <:*
8 3 :5P ; 8 .2 ; :3 ' 3 ' 2 ; <+:R ' 25 .2 8258 < B
42 3B:< G:58 9329B8 <:9B ?9&:5 +2 B2@2332 '
- ' # 'S 6 8 ' 5E B:5 +9 ' <+98 42 E 5J3 ; + 2
=: ; 280 1& ' " ' .! ' 5 'L+A56 8 ' 5J3 .=2E + 2B 25K
E B:5 +2 B: 'E:53 ' .!- ' < ' " B ' 3 5:9E2++28 25E 5*
B253 9 8 852 B95 ; :530 $9 ' @983 8: 3 HJ:9E2B*
5 3I 88: J52 23 + '32BB2 25E B:50 @ B ' ; ' 'E: 3
25E B:5 +9 ' 828 .=2E + 2B8 :. B20 ' A 'LLA 56 8 ' 3
+ ' 28.9 9B253 <:9B32549 28 .= 83 98 3:93 25E B:5
+28 5 8 52 80 E 882 9AI0 ' ' >> B ' 5
; : 8 :9 25E B:5 ?92 +2 8 2J2 93 "' 42E 5300 :5.?928
52 <+930 ; 8 8: 3 G2+0 .= 94 23 82.0 ' '
0 ' 2 ; B282= + >: .= 5 283: 3 3:9@:9B8 25K
E B:5 42 +9R0 ! !0 0 ' 3 R BB E ' 25E B:5 82<3
G29B28 49 ; 3 50 5 ' 0 'LLAE 6 8 ' 228E2 ++:R3
4:52?928 BJ 3339 ' 25E B:5 ?9 3B2 =29B28 49 ; K
3 50 ' H #/ ' ' ' + ; &25E:R 0 25E B:5 ; 28
8 A 580 9 .:++2J2 42 9 25520 ' ' "7F ' :K
.B 328 < B+ ' 25E B:5 25 .2 8258 9A @9J28 ?9 '
0 N' ' +2 ' 49 ; : 8 42 =:3=0 25E B:5 +2
8:+2 + +2E 530 0 $ ' .! ' 8
- ' ! ' 5 "0 23 & 5. 25 B 5? 893 :50 93:9B0
4: ' E3B2B QE:R ' .2 ; :3/P <B:E25^0 -5 #!- ' -5 #! '
5 #!- ' 58 &= 83:B ?92 ' -5 #!- ' ' +2 8258 42 7N
!7# ' ?9& + ' <2B49 4 58 +2 + 5J J2 ; :42B52
\' S- ' 'DO/@.-@'*@/O/ ' /O/@$1E
" ; 'Q!- "/.-'*%%/" ' ,!- "(% #0/(&"("/.-'*/(' "(
&-"!: ' "/.-'*//0/%(' "%"''0-/ ' "/.-'*//0/% ' "(2*&@
&-/"("/.-'*//0/%"(
0 'Q 5*E *B:*5 0 5 2/0 #
']' $9 ' ' 93:9B 42 8:+ ?92+?92 .=:82 ?9 ' .2 53 '
5 @ B4 5 25E B:55 ' 4&952 = 2 ' ' ; 8:5 49 82 K
J529B 829+2 95 <29 <+98 :B5 2 2 <B 82532 9 42=:B8
42 ; 9B8 25E B:55 20 ' ' E 'LL J ' 5E B:55 '
42 J+: B2 23 .= BJ ' 42 + 9B 2B80 ' D ' ' % '
28: 58 3 ; 9+3929A 95 <B 5.2 25E B:55 0 ' 83=0
50 ' & R 53 B2?92 H+ ' < B:+2 42 29I 5:5 < 8
.: ; ; 24&9: ' =: ; ; 2 G+20 < .=29B0 25E B:55 ' 42
; 8 B28 ' ; 8 .: ; ; 2 + ' < B:+2 42 29 ; ; 20
2++2 B9.3 +2B ' 25 E:980 ' 1 # ' 7 ' !-
' F6 $9 ' ' 93:9B 42 8: ' 428 <2B8:5528 ' 5E B:55 '
< B + ' :9+2 ' >&2A< B2 25E B:55 ' Q 25 2 ; 8 ?92
@& ; ; :+20 ' C &# 'E0 % 'LL $9 ' ' < B ; '828 25*
3:9B8 ' 29 3 428 <B: ; 28828 "' GB = ; ' ?9 ' 3 3
3:93 25E B:55 ' 4D 4:+"3B280 23 + +9 ' 3 .:55 3B2 +2
; R83GB2 49 ! 288 2 ?9& + 42E 3 25E:R2B0 I5 '
0 - ' < B3 ' 0 B3 ' " ' : ; ; 2 + 5& ; 3 <: 53
+28 =: ; ; 28 E2B3 29A 23 ?9& + 52 8 E 3 <: 53 +28

4 .2B52B0 +5& 3 '25E B:55N ?92 42 J258 5 B286
8'8 B3 . 25A <B 3" 6' 2A'.932B 828 :B4B28 5@983 !'
238 :J9 5 B28 < ;'D 4>' ' 5E B:55'42 52 538
:BJ92 +29A ?5' ?J B4253 & J5:B 5.2 : 8 E2 .: ; ; 2
& < 5 J2 23 <B28?92 +2 3 3B2 42 +29B 5:G+2882
@T ' > ' # &,
! ' Q 5*E *B:*52*; 5/ ' ; '
.3 :5 4&25E B:552B B 29+3 3 42 .2332 .3 :5
S' ('G/2' ' + 3& 9142, +,3 81 2&43& &4&
13+21/&2 '54?& & 3?&3 7 ,3+& O - 4 '%& G' +914 &
%& &32 2,33&7&3+ ']9 294 + < 54? ' 814+ 81 2 ' - ,42
&3 ,2+ 2'
-' # '> /
'Q 5*E *B:*54/ 5 ' 'LL 0 !233B2 9*
3:9B' 5E B:552B 952 E +2 42 :8828 42 ;9B +28'
']' 3B2 93:9B' '25+2E '.2 ; 29A .2B.+2 4&:B ?5'
25E B:55 3 +2 3: ;G2 9 49 B:' 8R ; 54 8 +2?92+
B 3 828 .:94428 42 . B.9 3 23 B2<B48253 3 3:58 +28
;:9E2 ;2538 428 4 4B25328 .:5832++ 3 :58
' *' C>,/ '3' 5 <' 4 58
' 2 ;233B2 93:9B' ! 38 ?5' <:9BB '42 5:98 <<B:*
.=2B8 '<2B8:552 49B 53 +2 283 5 8 'J B42 &25E 6
B:552^ # '0 "' '3' 2 <29<2 .2<254 53
?92 .2 8<2.3 .+2 43:552' :+2 42 3:9328 < B38 82
<B2882 &25E B:552 H>55 2@ ' ' 'E F' 28
958 E2.'B28<2.3 25E B:552 253 + 'B2 52 5'$" '
q' 28 5R ;<=28 ?9' &25E B:55253 H +R<8:I
4-/ '9 'E5' LL J' 28 4 5J2B8 &25E B:55253 42
3:9328 < B38' 28 8:9. 8 &25E B:55253' 293*43B2
882M 4&=:5529B8 25E B:55 253 ; 'E 2 :9B 52
<: 53 8:9G 32B ?9&2+2 ;2 43 B E 2 '$" '
' 4@ 3 + ' ; :B3 ;&25E B:552 23 @2' 52 8:5J2 < 8
3 89<<+ 2B + 'G:534 4 E 52 42 ;2 < B4:552B 4& E: B
; : *B54 ; 2 G: ; 4' +2 .:9B8 4&952 E 2 4:53 2+2 829+2
42E 3 4 8<:82B 7 ' 3 1 '1 7 ' M c'
.2 GB 8 <9 88 53 E 5?929B 42 3 53 42 B: 8 S .23
; G+2 B:53 ?92 'J+: B2 25E B:552 'U
' ' ' &25E B:552B :' ' 495 B 93:9B 42
8: ' :R2M ?9 54 3:98 +28 ; 9A 8& ; 88253 89B 5:'
3 328 28?92 8&25E B:552B 42 + '<: ;<2 428 4328
=) - +, ' " 'LL B254B2 <:9B 253:9B8' +
52 8 25E B:552 ?92 4&=: ; ; 28 898<2.38
-'# A 96 8' 3 5 E25 B?92 + + 83 E2B8 +2 B:R
25E B:55 'H+ 3 +2 3:9B 42I 3:932 8< 5J52 23 +2
.:5E 53 < 882B < B +28 4283B: M 42 ! BB:.G '
4F' 'S 6 8' 3 & E: 253 +28 88 2J29B8 32++2 ;253
25E B:5542 42 3:98 . 348 ' ' 3 M' 3
E: 253 @ '2834 25E B:552B H 88 4J48 3B: 8 ; : 8 ?9 *
3:BM2 @:9B8 'EB F' LLAE 6 8' + +9 '<B 3 25E 2
42 5 E J2B +9R ;28 ;2 253B 53 < B + 'G:9.=2 42
& 9<=B 32 25 & .2 5 E2.' 952 G:552 23 JB:882
+:332 4 'E 882 9A 23 8&25 +2B 25E B:552B 3:9328
+28 .:8328 42 & B G 2 23 42 & B ?92 <:9B <9 8
<B48 B253B2B 424 58 + ' ;2B 24 32BB 542 < B >2
4283B: 3428 .:9+:552842#2B.9+2 ! & 7 '33:
', '> / '<B E25?' / ' & 5. 2552
+ 5J92 4 8 3 988' /
'Q 5*E *B:5/ ' '" , '+28+ 29A . B6
.:5E: 8 58' B 8 23 828 25E B:58' 9A 25E B:58 42
.2332 . G 52' 5 <B25 3 J B42 ?92 +2 <+98 JB 54
5: ;GB2 43 3:9@:9B8 428 25E B:58 " '0 '
4 58 .# '<B'8 E: B G33' +2A 54B +
?9 33 ' & JR<32 23 < 88 25' 88RB :4 +@: ' 3
B 98 9A 25E B:58 4& BG2++28 ' ' *
3: ' ' :53 52 & '4 3 9 8 5J9+@2B ?9 '23 3
9892+4 58 & 5. 2552+ 5J92' 2?9 4B9<+2 4.9 ;2
23 8:5 :2 +S3 5.2+2 +B9J 3 :5 82 . =2 :5 3B2 ;G+2
S+&25E B:5 ' ' - 1' 7
-' !' 9A 25E B:58 42 52 82 4 3 ?92 42 &28*
< .2 23 5:5 49 32 ;<8 58' .28 <=B 828 E9+J B28
8:53 598 3428 4 58+2 83R+2 8: J5'' >& B '32 E: B 9A
25E B:58 42 : + +283 9A25E B:5842?9 3B2=29B28
', -' 'S 6 8' H 28 3B:9<28 49 492 4& 5@:9I 82
+:J2B253 S &25E B:5 9 <+98 <B=8+ 2+ 'B E 2B2 ?9& +8
<9B253 ' '5 'LLAE 68'++83B:9E B2533:93
32 < R8)' &25E B:525 < A 23 8+25.2 '2 '
cN' + 8 29B253 B2.:9B8 S <2B.2B + '4 J92 9 428*
89842 9B.= <:9B 5: 2B &25E B:5 42 +=: 5&
' 9 "F
-' '> /
7 'c 'Q 5*E *M *@4 @22/ " ' "
' ' 2J B44 9 E 8 J2' 5E 8 J2 < B & J253 42
<:+ .2 23 988 3 3 B2.:559' LL ' 2J B44 25 28<B 3'
28 <4B +8 25E 8 J48 E2.'8 5J* B: 4
j' ! 'Q 5*E *M *@2*; 5/ ' ; ' .3 :5
4&25E 8 J2B' &25E 8 J2 ;253 49 8:B3 ?9' & 3 254 3
-' !' =' :B52 +2 '2 ;<+:R4 .2 ; :3 4 58 +2
8258 42 J9B2' '*@2 4&55 88 88 5 &25E 8 J2 ;253
G+4 ;2^ '2 ' ' ; C
-' '> /
'Q 5*E *M *@4' 2 '<B254 95 '42*
E ;' ' :9 ' @&25E 8 J2 8 5:98 25E 8 J2:58/ '/ '
'LI 6 2J B42B 952 <2B8:5 2 9 E 8 J2' G:BG 8
25E 8 J2M .2 <B 5.2 25' ; '<B4825.2 ' :> " '
' ' +98 @2 E:98 25E 8 J2 3 ; : 58 @2' ;2 B2*
; 238 ':$8 29B E:3B2 E 8 J2 ' +: 4' --' '
: 3V?92 @2' E:98 B2J B48 :9 ?92 @2' &25E 8 J2 '6
3:93 49 44828<: B@2 B25.:53B2 & ; J2 5 ' ' /
C' 3 @2' 5&:5EB 8 +28 R29A ?92 <:9B 25E 8 J2B 28
; 258 ?92 89B +2 ; BGB2 :5 E25 3 4&4J: J2B 9
' ' ' & 8<2.3 4&95 <9+23 5& '4:52 B 25 ?9'
3& BB 32' ' : ; ;2 95 93B2 =: ; ;2 =2'39 <29A &2<*
E 8 J2B 59. 8 ' '3E N'LL B 2A3258 :5' &:2 +
5&:82 25E 8 J2B .28 53B28 4.9 ; 538 ")'
<-" " 'E CN 'LL 6 :9B52B +2 B2J B4 E2B8' &283
988' & B3 .2 2 .29A ?9 <:9B .:9EB B ?92+?92
<9 88 53 2 :B3 5E 8 J253 95 <: 53 4 B2.32 ;253
.:53B B2 3 :53 E2B8 .2 + 29* S .:4B3B +29B 4E2B'
8 B2 ' - 1 'A9 3: ' LL J' :9B52B +2 B2K
J B4 E2B8 'B4J+2B 89B' &283 +9 '829+ H &2 ;<2B29BI
?92 + ' .:9B 25E 8 J2 ' ' E L 6 2J B42B
.2 S .2 25 28<B 3' ' ; :B3 ?9&2 +2 25E 8 J2 E2 '
G2 9.:9< 42 2B ;234 @ ' " ' :B8?92@&25E 8 J2 '
+2 ; : ;253 B24:93 G+2 =' <B2884 < B +28 +: 8 4&9 '
9834B2 42E: B ' ' ' 'E F' >&25E 8 J2 5 E 4 58
& E25 B 428 <2 =28 4:53@2' 52 <9 8 89<<:B32B & 442
!06 ' # '& '9 '3' 5 +233' N <' '
4 58 # ' :3B2 42E: B 283 JB 54 :82M &25E *
8 J2B 59.38 D 'E ' >2 8 8 8 B2 ?9&95 =4B 8
32+ ?92 E:98 25E 8 J2 .2 42B5 2B ; : ;253 H+ ' ; :B3I
E2.'3B 5?9 ++ 34 ? $ ("2'= ' , '0 ' 7
@ 5E' 0 ' 88:58 ; :5 +8 + 88:5 '+28 E9+J B28
4:9+29B8 B 54B2 4&25E 8 J2B &:G@23 42 +29B8 ; +*
=29B8 ' ') ' 1 * 7 '+0' N' @2' 5&:82 25E K
8 J2B 95 <B48 J2 8' 3B 832 '4 / ' E 0'
5E 8 J2B 42 E2.' & 5 +5 3 ' 9 8?92 @25E 8 J2
G 25 42 < B3 B 4 58 &43 3 :=' 283 ; '< 9EB2 3 532 +
93 .B: B2 ?92 B 25 52 <253 ; &25 2 ; <42=2B 84E'
"""' + 52<293 25E 8 J2B 42 B253B2B 4 58 +2 82BE .2
' ' ' J :58344B2B' 2 8 J2 ?92+?:2 : 8 3
G 5 4&2A4.932B E 53 ?92 42 4:552B +2 32 ;<8 S+'
8 J2882 &233E 8 J2B 8 3 23 8 58 + '. 589+32B
B '- 1 ' S "" ' 29A ?9 4&9=' :2 + .B92+ 25E *
8 J2 53 ; ' 2 :R 253 4&95 :2 +@ +:9A ; :5 <:9*
E: B 8:9E2B 5 5U' 0 ' 93A E' ' 93
:G82BE2B ' ' ?92+ .434 '25E 8 J2 + ' .=:82 '
0 ' /'"" ' 2 J529B @2' .=2B.G2 23 @&25E 8 J2
28 ; :5 B?928 <2B8 58 + ' .:549 38 23 &98 J2
< &' '%' &25E 8 J2 53 +28 8R834 ;28 ?92 .: ; ;2
428 ; :R258 42 B254B2 &23942 42 + ' G:3 5 ?92
; : 58 <45 G+2 7 "' ' LL E: B 25 E92'
&43 3 &:G@23 +2 <+98 :B4 5 B2 42+ 'J92BB2 23 42
<B 5. < + B9 3 ?9:5 25E 8 J2 3 4 58 + ' E .3: B2
9 '< / ' ' M' &25E 8 J2B 8' :BK
3952 ?9&S 3B 2B8 8:5 42E: B 'C' , '
:98 25E 8 J :58 +2 <+ 8 B 42 +2 ; 52B ; 8
+ '@983 .2 283 @ +:982 42 .2 <4 8 B*+S 28 ' 9B6
. B23 E ' $9&2+2 25E 8 J2 ; : 58 ; ' <2B32 ?92
; 'J+: B2 9 '9 , /' E 8' LL ; ;<32B 89B'
52 JBS.2 <B4. 2988 ?92 @2' 5&:82 25E 8 J2B 42 8'
+: 5 8cE' N%%' '2 B2 952 4S2 42' 5 ; : ;253
42 B2 +2A :5 +9' 3 25E 8 J2B + '448 JB2 G+2 E2539B2
?92 .2 82B 3 ' B ; ; 'M 'IL 2J B42B .: ; ;2'
$92 4&=: ; ;28 ; :9B293 42 + 'J+: B2 .4+2832 5E K
8 J253 + ' .B: A .: ; ;2 :5' B42 9 952832' '
$ ' ' "" ' %6 &25E 8 J2B / ' ' 2 B2J B42B
8: * ; 4 ;2 LL J' = . 5 8&25E 8 J2 3:9@:9B8 < B
.2B3 58 ._348 E:B G+28 ' '> ' IL 2
B2J B42B ; 9392+2 ;253' 8 8&25E 8 J2 253 &95
& 93B2 E2' 33253 :5' &95 23 & 93B2 B E + 8& BB 3*
3 53 9 < 88 J2 2 ; 289B2 428 R29S 8&:G82BE2
8&25E 8 J2 ' =, 'E' LL B2 .:58 42B4' 23
2E452 ;253 <293 8&25E 8 J2B 42 <+98 29B8 ; 5 SB28
' 'D-' '23 5 / ' 2 ; :3 < B +3 E: B 43S
:B ;2 4 58 +2 AE 6 8 4.+2 49 ; : 58 5:8 2A ; <+28
52 B2 ; :53253 < 8 <+98 +: 5
'Q 5*E: / ' ' LL ' .3 :5 4&25E:R2B 4&2A*
<44 2B 428 ; B.= 54 828' B +2 42B5 2B 25E: &'
B2?9 'LL ' .=:82 '?9&:5' '25E:R42' >& 'B2?9
E:3B2 25E: ' :3B2 25E:' 283 BB E2 B 5.' 42 <:B3'
' 233B2 4&25E: +233B2 ?9' 55:5.2 ?9&952 .=:82
'232 25E:R42' LL ' 2B ;2 42 @9B 8<B9425.2 * 5E:'
25 <:88288 :5 @9J2 ;253 ?9' 93:B 82 S <B254B2 <:8K
8288 :5 42 .2B3 58 G 258 +28 =4B 3 2B8 <B48: ;<3 8
428 G82538 44.+ B48 +28 =4B 3 2B8 BB4J 432B8 428
42 9538 +28 25 538 5 39B2+8 +28 .:5@: 538 23 D + 3'
' 6 2 4 3 42 ?92+?928 E2B8 ; 8 S + '89 32 4&952
< 2.2 42 <:48 2 .: ; ; 2 95 =: ; ; J2 S + '<2B8:552
S ?9 '2+2 283 4B28822' LL 2B5 4B2 83B:<=2 42 & 5*
. 2552 G + 42 23 49 .= 53 B:R + ' LL "6 2B 52 42
+ 39BJ 2' 2?<5 42 ; 3 522 :9 5 4&: .2 4 58 .2B*
3 528 .: ; ;95 9348
'#&*%' * [' 9 $)
3 'Q 5*E: * 2 42/ # ' ' 52
+ ; 2 25E: +42
'Q &/ Q 5*E: * 2/ W' # 8 ' 2B ;2 42 ; 4*
3 2B' 2 .:9BG2B J 9.= B 25 < B+ 53 4 9 2B 42 & *
. 2B +:B8?9&:5' +28 3B2 ;<2' 28 + ;28 8&25E: +2<3
?92+?92 : 8 S+ '3B2 ;<2
' ?' 5 " 23 / ' < B .: ; < B 8:5 SE2:'
+ ' .:9BG9B2 4&952 E: +2 ?92 J:5 +2 +2 E253
'Q 5*E: *+9*B&@ ' ' : ;'4:=54 S b *
+ ' +Y 4B2 .:9BG9B2 42 + ' + ;2 428 . 82 9A
' '> / ' b D
! + - * * ! ' ' Q 5*E: *M * 4/ 6 '$9' '428
E: 8 58' 3B2 G 25 ; + 25E: 8 54
3' 'Q 5*E: *M *54/ :' ' 53:9B2B 42
E: 8 58' 5 5&:9G+ 2 < 8 4&25E: 8 52B .:5E25 G+2*
;253 .23 =: ; ; 2 ' ' 4 58 +2 3 ' ' I'
' ' &25E: 8 52B / ' ' 2 4:552B 428 E: K
8 58' +8&283 ; + 25E: 8 54
6 'O f 2 ?92+ H : 5I <+98 G:54 ; *
+"/% .-"/#'O -& ,!" +*-/('("'O "/.*-(-/# #!0!2!/"(
4&0/%"('* ' ' MY
-' (! * 5' " 23 /
! + 2 ' 'Q 5*E:* 2 42/ " '" '$9' 8&28+
4.= <<4 25 E:+ 53' + 3B:9E ' + '. J2 :9E2B32 23 +28
: 82 9A 25E:+48' LL B 2A3258 :5' S <2 52 25 5 +28
42B5 2B8 ; :38 2 +29B ; <9+8 :5 3 B4 E2 B << 53
8:5 " ; 2 5 33253 E2 9 4 8.:9B8 25E:+4 +9 '<:B3253
+28 4.=:8 D ' + / ' 'LL< J' 28 <+ 8 B8
25E:+48' 3 <+29B2 8 '@2952882 E 53 &SJ2 25E:+42
E' # C ' "
! + - @ ,' 5 G Q 5* :*+4/ / ' ; ; [B3 B <5'
E:+ 53' 28 <2B4B A 82 8:53 25E:+4283B:< 343'H &=:5*
529BI' &25' E '3B:9E2B 8 '8.29B H & ?9 341 23 448 '
; 4 ; 2 @:9B E2.' 2+2 8&25E:+2 9 .4+2832 84@:9B
' $' # ' ' & J+2 428 4J :58 ?92 @2' B23 258 25K
.:B2 2 ; 542 S 8&25E:+2B E 2B8 +28 ; 2B8 49 :8*
<=:B2 '> ' ' ' "' 3 5 8 58 B4<+ *
?92B 8&25E:+2 S 828 .:5?94328
" , ' # ' ' E2.' 2+ <82 49 <B:5: ; '<2B8:552+' 2
; : 54B2 GB9 3 2B '25E:+2B.23 : 82 9 'LL ; + 4B:*
; 253' '5&R' '<+98 ?92 +2 5 4 +28 : 82 9A 82 8:53
25E:+48 82 4 3 +:B8?92 .2B3 528 <2B8:5528 8&43 53
B23 B428 4 58 95' 254B: 3 :=' &:5 28<4B 3 +28 89B*
<B254B2 52 8&R 3B:9E253 <+98' 5 4 3 988' <+98
GB 4E2 ;253' 28 : 82 9A 82 8:53 25E:+48 :5 8:53
25E:+48' /L J' ;B8?92 <:9B ; :3 E2B8 29 3 'E: A
8&283 25E:+42 E' 7 ' ' & ,'@ 'LL 6 B 2A325'
8 :5 + 82 4 3 428 .=:828 4J4B28 ?92+2 E253 2 ; <:B32
:98+28 < < 2B8 8&25E:+ 2B253 < B+' .= ; GB2 988 3 3
?92+ ' 2543B2 93 :9E2B32' LL &S ; :'8&25E:+2 82 4 3
<:9B 2A<B $4B ?92 &:5 ; 29B3' '59 3 88 4J2 '828
<B952+28 3 8:5 S ; 2 43254 53 +28 328 93 3:932
<B432S 8&25E:+2B ' ' 0' '+9 ; 4B2 8&432 53 23
8:5 S ; 2 8&25E:+2 '< 'E "' 8 B <<2+ 25'
<29 S <:298:5S ; 2 <B432 S 8&25E:+2B % V 9 '
' &S ; 2 8&25E:+2 82 4 3 988' 4&952 <2B8:552 4:53
+2 .:29B 89 3 ?92+?5&95' ' 29A ' @2 8258 ; :5 S ; 2
<B48 +9' 8&25E:+2B ' 3 , ' * '
' "6 8< B 33B2 8&2 .2B 8&4.:9+2B' 5 3 G2 9*
.:9< 42 ; 9 3 23 <9 8 :5 82 .:58:+2 9B +28 +28
49 32 ; <8 + '3B 832882' 8&25E:+2 ' % ' G+' E 0
" ' & +.R:5 9 3 ?92 42E 53 :+2 :+2 +2 9 3 S 8:5
3:9B ! 8 8 +43 ?92 & 35:9B 8&25E:+2 ' 52 .:5*
5 3 <+98 42 B23:9B E' ' ' ' *'
& ; 3 4 B2832 9 ; : 58 ?9 54 +2 G:5=29B 8&25E:+2'
$ ' - +, ' ; '" ' B:< 42 J+: B2 5:98 '59 0
2 <+ 8 B 8&25E:+2 7' 2 , 'LL 2 32 ; <8 &: .*
. 8 :5 8&25E:+2 2 283*S*4 B2< 882 B < 42 ;253' LL *
; + 4B2 ;253' :3B2 44@29G2B 8&283 25E:+4' 28 429S
.=2E 9A + ' ; 9+2 9 ; B.=4 8&25E:+4B253 H 9B253
E254981 '# 'A
-' 'A ;6 8' 3 53 G 3 '828 +28 23 8&25 E:+
' ' FC'+28 4:98 4249 M +28 4:98 G2*
832B8 3 +24 3B48 4:9228 : :+228 $9' '25 2B253 8 *
3:83E:+428 < '" C 'LLA E6 8' 3 58' .: ; ; 2
+ 8&25E:+ ' :98+ 'G2 9A BGB 882 9A .B:+ ' ' ?9& *
4:5:'+ ' B: 42 B:9842 83 829B ; :5 E 8 J2 E +42
! # < ' F' LLAE 6 8' #2 38+ 39 N8 3B:< G2++2 2'
39 4: 8 <B254B2 J B42 $9&95 29 8 'JB 54 3B28:B 52
<9 882 428 B2B $9& +2 52 3&25E:+2 9 ^ 2+ <:9B + '
32BB2 2 ; < B2B ' , :' 28 4 ; 28 8 58 B23:9B 6
8&25E:+2 + 'G2 93S ' 9 8 + ' ; :B3 E 253 ?9'
5:98 25*E:+2 ' %N%
-' (! ' > ' 23 2:+2B / ' ' 5 E: 3 ?92 259:*
' '?92+?92 : 8 95 8258 .3 .2 ?9' 3 .: ; <B25*
4B2' . : ; ; 253 / ' ' <B 8 +2 8258 42 44B:G2B
25 + 3 5 ,
' Q 5*E:=*3S 5 " '" '$9'
' S3S 25 G9332 S &25E:=32 ;253
3' ! 'Q 5*E:4*32*; 5/ ' <2B 3 :5
= J ?92 < B+ ?92+ 2 :5 25E:=3 3 952 <2B8:552
-' ' ' 5E:932 ;253 ' '
, ' O f 8' &25 4 3 ?92 .2 8:53 25E:9832 ;258 f
:9 ; +2 .28 ?92 8 ' 2 ; ; 2 52 & ;2B: 3 @ 5 G
= ' 6 '<' ' D
*' ' ' /

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'#/'%"+4(' 40" !/' ":2M(' #"' $0%-7!"' */" +0'26" $*'@
2#"' !/' '"$'*-#-(("+"/%' "%2' "% ,!- /"' #!'" 7!M'"
4&!(' #" 8-/7%@,!0%'" 6"!'"(' NN Yd 0" ":%"/(-*/'
++"/%0/-'40((07"' */;"!"H46H+;'" !''07"('
4'*#!2%-*/(' M46M+;'"(' "(+06-('0!%":2H&;;'"
+0%(' H4;-+-'"' #" ;' 2*+?-" #" 1&+4"%-/"/%'
9'9'0*!((' '7' !'."!:'&-.'"'0!'4"!4&" !/'4*!@
.*-"-4;-+$"'"' ' - +, 4'I'NNF # '
:# '#!-/("2%"(' /#''*4%;'"(' ,!- /0-(("/%"% +"!@
'"/%&" + +"9*!'' #0/(' &",!"&*/' #-(%-/7!" 3 "
'* , ' 1-4;-+H'" #*/%9" 40'&" /" .-%
7!;'" ,!" ,!0%'"-%2-/,' 6"!'"(5'90+0-(' !/" +*!@
26" #" 2"%%"(4;2" /1O ' &":"&" (*&"-&'
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' */%'"@+*- 1 %"'/"& #*//0/% 2*/%+" !/'
'*80!+" "%"+4(' é '#46;+;'" "% 1"(402"' ;' 1O@
%*+"' ' !**' C '-.' "'NN' $' "'+"#" ;*%O@
/-,!" 46 + '"#" -'7-/-0'*!'(-+4&"+"/%'-4; @
+;'"' /*+' .!&70-'"#" &O ' */
D2*++;&-/02 "(E' #-%" 0!((-' 46;+;'-/"' "(' (0!@
.07"(' #" &O *!-(-0/" +0',!"/%&O (-:-;+"6"!'"#!'
9*!" 40" &" ++*"/%*# 1;46;+;'" (*"%#"(' "0!:'
2 '2? 'S' 'B
' :- I'(' %&O $-".'" 044"&;" "$$-+"'"'
'? - '$'MA'NNO I'(' -".'""46"+"-"*!'
--0-'"' ['11'
'# $ '1 -H/"4*5' ;4;;+;'"' #" --%&' (!'' "%
H4H40'9*!'
? 'D;@$;@+;@'-@#!&' " , 'NN I' OK
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9*!" 40" 9*!'' &" &-"! #" 26",!" 4&0/;%" #0/(&"
<*#-0,!"' Q!0%'"0/(' 04';(' -& 4!;&-O#"!:'.*&!+"('
#!;46 + '-#"(# # (0!' 404" & +"/%O ' & '
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-/#-,!;" 40" #" 2*!'%(' -/%"'.0&&"(' #0/(' */" 0(("<
&*/7!'"#!' "'NN&,' ' !.'07",!-;/!+;'"%"/@
("-7/" &"(' . /"+"/%((!9"%"(' ;'20&2!&' "% ;'4'*.-(-*/'
#0/(' 1O//;"' O' */0-((0/2" #H' %"+4("(%' !/"
;46;+;'-#"' Q!"&,!"(' 4"'(*//"(' H+0/#;'"/%' ,!"
&" . * ' *#".%/%' !/" ;46;+;'-#"0(%'*/*@
+-,!"2*+4&;%" ' &*4" %9 , 'NN d -.'"('
*!.'07"(-/#-,!0/% &"(' ;.;/"+"/%(0''-.;(&" +;+;'
9*!'"#" 0//;'"@;'#-$$;'"/%"(' ;4*,!"(' NN !;&-20%-*/'
$0-%" #0/(' !/'9*!'/0&' #"(' ;.;/"+"/%(0''-.;(' ;#-+;
."'("(' ;4*,!"(' &" + ;+"' 9*!" ,!" &O #0%" #!'9*!'K
/0&' BI &-%'"' #0/(' 1O/%-,!-%;' #!*!.'07"(' ,!-'O@
2*/%O-"/% 9*!" 40" 9*!'' &" #" &O .-"
#!!/' 4"'(*//07"' "(' 46;+;'-#"(' #! &":0/#"
' ?' " +*% "(% +0(2!&-/' #0/(' &" -2%-*//0-'"
#" 1 20#;+-"#" AM '"%#0/(' #!0!%'"(#-2%-*//0-'"(
&%O-'"O #-%>' O/'&"-!' #*-% U0!:' 'O;+0/(9 &"(
4'"+-"'(' ;46;+;'-#"(' X' ?0-(' "'0!# "% #!0!%'"(' &"
$*/%$;+-/-/'7"/'"0#*4%;'40'&1 20#;"% +-" "/' BYM
"%2*/$*'+"0!'7"/'"#" 2" +*% "/' &O%-/'"% "/'7'"2
'# $ '1 4/4(4&2' #" ;46;+;'"
%'# # #? H# D;@$;@+;@'&@/1&' ' ' "'+"#" #"
;*%O/-,!"' "/'"#"4&O/%"(#1 +;'-,!"'"%#"(' /#"('
D.*8' # # # @
%' 'D;@$;@<-;@/1E' 6' ' " , ' "%@
%'"(' ;4;;(-"//"(' 0/2-"//"(' &"%%'"(' +0(,!"(' ,!-
;%O-"/% ;2'--"(' (!" &O 2*!'*//"' &O 2"-/%!'"(' 2"-/%!
4-"#(' #" &O (%O%!' #" -0/" #1 46;("' "% ,!- 40(@
(0-"/% 4*!"0.*-"&O ."%!' #" $0-'" * "/-" ;' 2"&!-
,!- 4*!.0-% &"(' &-'" "% &"(' 4'*/*/2" %*!% 2" ,!1-&
#;(-'0-%
$'# /'D;@$-E' ' ' 8/*/8+(' #!;460' "7*+"'
"(% &O #-:-;+"40"%-"#" 1;46-' ' ' 1 ' >7
O ' YM
5# / 0+&)' D;@$-@O&@%1E (+ ;+*/'-/*!;"'*0!@
"6"+0'' /' #*-% %"/-" 4*!" #"(' "$$"%(' #!/"' -+07-K
/0%-*/' ;&"((;'"%#;';7&;'"%*!%2",!!*/' '02*/%" #"('
#;+*/(' ;-2!;"(' "%(!22!;"(' #!'"(';46-0&%"(' #*/%
/' $0-%%0/% #" +0!.0-(' 2/%"(' "' ' 9 '
' "" ' I' ;#' ' 26' YB
'# $ '0U7) *' #" &"-#OOg' #" -/-'(!'' "%
#OO*E' &O/2"'
%'$- 'D;@$-@#'B@<1E' ' ' "'+"#" +;#"@
2-/"' !"!"2'-%-,!"-/2*+4&;%"'*!'(!"!" ;'&O 40'@
%-" (!4"'-"!'"#!'2*'4(
?'1 ,9 4g*3'#"-/-'(!''"%$Y4gP'(!"!'
%$- 'D;@$&@44-@*/E' ' ' "'+"' #!0/0@
%*+&"' O ("&&(' %!'2-,!"' 4*'%-*/' #" 1*(' (46;@
/*&#"
'# $ '1 H%/-/*.'("&&(' ;' 20!(" #" (O$*'+"'
#" -/-'(!''"%%//*5' 26".0&
'D;@$*#E' ' ' (4;2" #" (!'4&-(' #"%*-&"
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+1"/'.!"-&&"<' ;&"2-"' ' 'O."&&"5 !' 2*/%'"$O-<#"
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"' ' * ' 4' T^ A
' ?' 4-2"5' 7#/".' " * ' 4'*."/2' "(@
" "(407/' " ' 4*'%!7' "
%' # ' D#@4-@[&-@/1E' "'+"#" ;*%O/-,!"'
Q!-' "(% 4&O2# (!"&" '#2"4%O2&" #" &O $&"!'' "/' 40'@
&O/% #!' /"2%O-'"
' ?' 1 :&'(!'' "% : .-E' &-%
% Q D#@4-@[*&-@[1E' O#9' "'+" #1O/O%*@
+-"' Q!-' '#4*/# 0!:' #-$$#"/%"(' 40'%-"(' #!' 2*&*/'
"/' 40'&O/% #" &O (!'$O2" #!' ."/%'" #7-*/' #4-@
2*&-,!"
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40" (*/' (*++"%(' (!'&" (*++" "% #" &O %#%%' 4'-/2-40&"
' # *%' B#1 '(!'' "% :MD---' 26"."&!'"
$'# 7 ,H6*+# D#@4-@[*/@#-@ E' (' +' "'+" #1O@
/O%*+-"' !;#"*(-%# ":%"'/" #" 1":%'"+-%& 2!;-%O&"
#" 6!+#'!(
'# $ ' B#1Y' (!'' "%* 4
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"'+" #" ;*%O/-,!"' */% &O 2'* " (1-+4&O/%" (!"
1*.0-'"
%' # 7 ,?,+>#' D#@4-@[*@'*&@&-"E' (' ' "'+" #"
;*%O/-,!"' %O% #1!/" 4&O/%" ' -&" !'(' #4-2*'* #"('
' '*14" #" 4&O/%"(#-.-(#"/#"!:' 2&O(("(' %O '0/@
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2' /" D4"0!' 26"."!:' "% 4#'-2' /"E'NN "'+" #1"/@
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-+4*'%O/%,!-' (!'.-"/% 04'#('&O 2'-(" "% ,!-&O 2*+@
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7'"2' /# #0/(' %%-,!"&O/' Y ' 0.0/% S' ' ,!-
/-0-% ,!" &"('#-"!:'"!((("%O!2!/"/' 4'*.-#"/2"' 'O%@
%O260-% &O $*'+0%-*/'#"('26*("(' '&O '"/2*/%'" #"(
O%*+"(' "%$O-(0-% 2*/(-(%"' &" ;*/;"!' #0/(' &" .*@
&!4%#" +0-(' &O .*&!4%# &-#" ' &O 'O-(*/'"% ' &O +*@
##'O%-*/' ' -/2"((@' 4!-(' -"<@.*!(' 2*+4'"#" 40"
+O .*-:' " #7" 2'08*/'#"('&*-(' Q!" &O 4'!#"/-"
/O%!'" -2%O-% "/' '#2" O!"&' ;*+;!"(' #-!"!
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1"/.*&O 40" #"& '&"(' +!'O- "(#!' +*/#" "' $&'O!@
26-%'&"(' +"/'(('#1!/" -/#-7/'&" #"('-/.*+"!'' %&" 4"'+-"'
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' # +0-(*/' #1 '-(%-44"' M 90'#-/(' #1 4-2!'"'
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(*!+-(' &O /O%!'"' ' 4' A ' NN '*14"O!'#1 4-K
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(' 4*!'2"2O!' #1 4-2!'"' #4&O-(&"(' 40' -#'!'%'@ ' ./$O/(%"' ("/((4&*-(-'
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#*2%'-/" #1 4-2!'"5 ,!-26"'26" &"(4&O-(-'(#"(("(/('
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#0/(' #".-/#'0-% &" +0&%%"' ! ' YY' %-
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#1 4-2!'" "% #"(' #4-2!'-"/(' *!&*-' &O ."'%"(4*!"!'
(*/'4&O-(-''21"(%%*+;"'"#0/(' 1#4-2!'-(+"' ?' %'---'
4' Y B' ' ?*'O&" #"(' #4-2!'-"/(' '"26"'26"#" &O .*K
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?' /'%'*!."#4-2!'#-(+", !-' /1"(%40(;'*/5
20"*/'/"#-% 40(' 1O'-(%*#!-(+"' -/(-'(10-7!-("' &O
.*&!4%# #!' (07" >' (1O;(%-/"' 4*!' "9*!-' 21"(%&O46-@
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;'#" '" ' C" ' " : " 5
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+"(' "% #"/%"2"/%" 40'2*!'%O2-'2*/$#'"/2"#1!/'
2"'2&" 4&!(' 7'0/#' 60,!" -/#70&-%# /*!."&&",!"
1O'%#1*;("'."/'" 4'#"$2%-*//0/%$O-(0-% ##"*!@
.-"'(!'260'7"O-%&"(8(%#+"#" %*&#+#" #1!/'/*!@
."&'#4-282&"'
' ' >7" ' .
'# $ ' G#1 1 2 ' #" --2&'(!'' "%:#:O*2'2"K
2&" D.*8' $ @
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6' DA!-' O '044*'%' ,!-' 0440'%-"/%' ' 1#4-282&*&#"
#. 7*7+, !" ' D#@4-@(-@[&*@-@#1E' ' ' "'+" #"
7#*+#%-"' *!';"'"'/7"/#'#" 40"&O '#.*&!%-*/' #1!/'
4*-/% #"#O 2-'2*/$#"/2" #1!/' 2" '2&" ,!-' *!&"(!"
&O 40'%-" 2*/20."*!'2*/.":" #1!/' O!%'" 2"'2&"
4'" +-"' #"2"('%'O-%#(' "(% (!"&"(' #4-282&*&#"('2*!'@
;"(' 2*+4'-(("#0/(' &O '#0/(' &*' ' #7#/#"O&"' ,!"
&O'282&*&#"' +0-('4&!('2*+4*(#("' "% ,!-&!-('2"##"@
'"/%,!0/%"&&"' "!%#% 4"(,!"'#4!-#"' 40" &"('7#*@
+#%"(' = ' 1044&-20%-*/'#1!/" #4-28@
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+0-(' "&&" "(% /#7&-7#"' -/' 1' O &!/" ##2'-% !/'
';"4'"(' !/ 2-'2!&O-'%" O!%!' "#" &O %"'"5 +0-(
.!"#!' (*"-&' "#&"'40'O%#2'-'"'!/" (!-%" #1!-#4-28@
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-%#%#!'7'*!"!"' #1#%#-&&"-&"(' #*/%-&"($O-40'%-"-"5 "/$-/ &"
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$ ' >" *4*' "% ' (!$$-:"
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7-"' /"#"(' 4-#""(#!' %6*'0:' #"(' -/("2%"(' 6":0@
4*#"(
'# $ ' 1 :% "40'&-"/
#. 6# #' D#@4-@###@+-"' ?#/07" #-%' 4*!"(*/'
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&O#-"' 2*/%07-"!(' "*!' /*/' ,!-' O%%O,!" %'#(@
7'0/#/*+;'"#" 4"'(*/"(' & '#7/O-% !/"#4-2-"
+-"#0/(' &" 408('("("(' 7'0/#"(' #4-##+-"#0/(' ,!-' *!%
'0.07#' &" +*/#"' 1#4-2!"' #"%*/#"#' 26*&#'0'NN&,'" ,'
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-&'044*'%" 16-(%-'"#" #-$$#"/%"(' +0&O#-"(' "% -/@
$&'#"/2'40%6*&*7-,!" "% ,!"&,!"(' 0//#"('NN I' -7'
" ,!-' (1"+40'" #"(' 4-2!'"(' #4-2!'-"/(' #4-2-"'
40'" #"(2*4(' &O "(%4*!' 0-/(-' #-' #"(' #4-##+-"('
#1"(4'-% ,!-707/"/%' H 6*++"(' #" 4'*26"(' "/' 4'*@
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f ' "/% *'O%'!('0+"!:' (*!(' &" ,!"&&" '#7/"
#1 !7!(%"&' ,!"&&"' "' ' "
!4-##+-"' #"(' 2'*-(#"'"(' ' (
"$&%' "/%'O&/# &"' -' 0/,!-%0-,!"'(' (1-'*/*!"-'"' ("
' ' ' ' %A
' ' :!-I'(' "(%-&"'/2"' ,!"' & 46-(-2-"/('04"@
&"/% 84-#-+"' ' $1' ' o ! ' (%#"9*!'
"/'9*!' 0&*-"/% +*!'0/%' "/' 1*(%#' #1-+4-#"-"'
2 ' ' 1 ' 9 9 ' 4'G Y' " +0!.0-('0-"
2*''*+4!'#"4*!'2"0!&:' */% "/' +0-/% &-"!'2"0!K
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#0/(' ' -"!+"$-"'' U$'044"9 #1"(4-#-+-"'
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"//2' #'" 26-'!'7-"' "+-'" #0/('&0' '"7-*/' #4-70(I'
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- ,!"' Q!-' "(% (!" &0' %"''' *!' 6*'(' #'" %"''' *%8@
##*/('#4-7#('2"!:' ,!-'&*'(#'" &0'7"' +-/0%-*/' (1#@
#."/% 6*'(#'" %"''' 40'&0-&*/7"+"/% #0'2*&&'%,!-'&"('
"#40'" #'" &0' '0#-2!&"' 40'"<"+4&"2"!:' #!'60'-2*%
'$- ?'1 -2&80%*2' #'" #-%&' (!'' "% 80%0' '%"''"
%' = 0$-&Q -#@4-@9#@-@%E' 6' "'+'" #"7#*@
&*H"' "' #-% #!!/' ##4#% #!//'" '#2"/%'" $*'+0%-*/
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&*7-"' Q!-' * '" &'" 46#/*+#/'" #'" 1#4-7#/-"
'$- ?'1 -%-' (!'' "% !/' '0#-20' 8%.' ,!-' (-7/-$-'"
"/7"/#'"'
$' I . -# [#' 'D#@4-@9"@/#@<1E' (' ' 8(%#+'" #10@'
4'#('&", !"&*/' 2*/ ,*-%&0' $*'+0%-*/' #"('2*'4('*'70@'
/-(#('40'7"/#('" 7'0#!"&&"' 21"(%6@#-'" 40" 10##-@
%-*/' (!22"((-."' #'" &"!'(#-."'("(' 40'%-"(5' &"' /*!."&
#-'" #%0/% #10;*'#' 6' 1#%0% #1*.!&"H 4!-('#'" 7"'+"'
"'$-/' #1"+6'8*/' 1#4-7"/#("' *44*(#'" 0!' (8(%#+'"
#104'#(&", !"&'&"('40'%-"('4'#":-(%0/% #0/('&"'7"'+"'
6"' $*/% ,!"' ("' ##."&*44"'' "(%0#*4%#'" 40"' &0' 4;8@
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'$- ?'1 I-' (!'' "% 8".("%2' 7#/#'0%-*/' D.*8'
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"-*&*7-(%'" ,!-' "(% 40'%-(0/' #'" 1#4-7"/#H
%' e L 'D#@4-@9#@/-"E' (' ' "'+'" #'" +-/#@
'0&*7-"' 6#/*+#/'" ,!-' 0'&-"!' ,!0/# !/' 2'-(%0&'
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'$- ?'V"
%'# -#,HH#)' D#@4-@9*@/#E' 3' ' "'+'" #'" +0@'
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7-"' 0'%-'" #'" &0' ;*!26"' #'" (-/("2%"(68+#/*4%#'"(
'$- ?'1 %2&' (!'' "% &0/7!"
$- 'G#@4- @7&*@%E' ' ' P'+'" #10/0%*+-"
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a!4#'-"!'" #!' &0'8/:' '"2*!.'" &0'7&*%%"0!'+*+'/%
&-'" &0' #"7&!%-%-*/' "%'"+4#26'" 0-/(-' 1-/%'*#!2%-*/#"(
0 +"/%(' *!' #"(';*-((*/(' #0/('&"(' *-"(0#'-"!/"(
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7&*%"' ' ' ? .-% '$!'DB' P+*' 0 I' (' 1"H
4:7&*%%'" *!' &0/7!"'%%'" 2*!.'" "% #"(2*!.'" 1*'-$-2'"
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' %(
'$- ?'1 '*80%-- -'&2*!' #-%80%*:.&2' #'" #-%&' -/K
#-,!0/% 0#9*/2% [+' "% 80#=/'0' &0/7!"
%' $- &Q 'D#@4-@7&*@%%-@[1^' 6' Q!-' 0'
'044*'% [' 1#4-7&*%&"
%' # -+,&& &#' D#@4-@7&*@%%-@$E' (' ' "'+'" #'"
+##"2-/"' /$&0++0%-*/' #'" 1#4-7&*%%"
'$- ?' " "% &'" (!$$&:'" +##-20& '-/H
#-,!0/% -/$&0++0%-*/
[I -H0&) #' D#@4-76@/0@$E' '+' "'+'" #'" %#@
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2*+4&#%'" 0%%026#'" 0!' 40&0-('#'" &0' %#%" 4'-/2-40&(
'$- ?'1 -%&' (!'' "% 8.0M*2' +[26*-'"
$$- 'D#@4-76@/0@$-"E' ' ' %0% #"(
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W'# 'D"@4-@7*@/1E' ' ' "'+('#";*%0+@'
,!"' /."-*44"#(%-((!'2"&&!&0-'"H-'"2*!.'" +%@
#*7*/"
'$- ?' *8'0!'(!-.0/% 1#%8+*&*7-"
-@ I' 'D#@4-@7*@/E' (' P%' "'+'" #'" +8@'
%;*&*7-,!"' 7'"2,!"' *'/' #"(';#'*(',!-' $-'"/% &0' ("H
2*/#'" ":4"#-%-*/' "/%"' 6#;"(' "% 4'-'"/% 2"%%%"
.-&&"5' /*+'#*//#40'"(,!1-&0' (#%0-"/%&"($-&('#'"2"!:'
,!-' 0.0-"/% $0-% &0' 4%"+-#'"'7!"''"
'$- ?'1 -2&8(.*-5' /#' 04'#('#'" #-%&' (!'' "%
8*.*2' "/7"/#'"+"/%
4- = ?? &%Q S' D#@4-@7'0I++0@%-@[1E' 6'
Q!-' 0440'%-"/%-' 1#4-7'0++"' %8&"' %'0-% "4-7'0+@
+0%-,!"' ?0'*% +"("+;&'" [' 2"% #70'#&'" 4&!('-/@
7#/-"!:' #"('4*' %"(#4-7'0++0%-,!"(%0/% 40"&0(-/@
7!&0'-%#' ,!'" 40"&0' .0'-#%# #'" ("(4"%-'" #"((-/('
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S-#*&*7-(+"' 0-'('#"('#4-7'0++"(
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+"/%' 4"%-%'" 4-#'" #'" ."'('(!" %*!%'" (*'%'" #'" (!9"%('
1#4-7'0++"' 4*!' &"(' 0/2-"/(' #%0-% !/'" 4"%-%'"
4-#'" ,!-'/'" 40((0-% 7!#'"6!-%*!' #-:' ."'(' #!*'#-@
/0-'" "/' ."'(' ;":0+#%'(' "% 4"/%0+#%'(5' 2!#%0-%
!/'" -/(2'-4%-*/' (*-%%!+!&0-'" (*-%%'-*+4608' (*-%
.*%-."% *!' #"(2'-4%-."5' !/'" 4"-/%!'" 40(%*'0&"'" %'*4'
2*!'%(' 4*!' $0-'(' !/'" -#8&&"' !/'" #"2&0'0%-*/' *!'
!/'" 4&0-/%"!("(' 0+*!'"!("(' %'*4' 4"!' ##."&*44##' 4*!'
$0-'"' !/'" #-#7-"5' &0' '0-&&"'-"' 8' 0' 0!((-' (0' 40'%' +0-('
!/'" 40'% '"(%-/%"'" %'0/(+-(%-*/' 40'% ,!'" #0/('&"(' #4-7'0+K
+"(' +*#"+"'(' "&&"' (% 4'"(,!"' %*!%'" ,!'" "1"(%
%*!9*!'(' &"(' %'-0-% 4*!'/(' 1" 4'-/%!'" .'-(%0/%('('
'@ ' ' ' ' 9' ' ' 90/.' BM'
' i' *!'%(' 4-#'" #'" ."'(' ,!-' (#'" +-/'" 40"' !/'
+%0' *!' 40" !/' %'0-% 4-,!0/%' 0' 4*-/%%' #1!/' #4-@
7'0++"' &20/#'" "1"(% %0' 40((-*/%' !'. "!:' !/'"
&*/7!" #4-7'0++"' -"/' ,!!"&&" (*-% #-7/' '#"
;-[+"' *++"' !/' &*/7!"' -/(2'-4%-*/% 1!/' ("!&
2*!4' "&&"' $0-%' (0' ;'#26"' -/(-' ,!'" &"'%0-% #!/' 0'@
26"'9 (@%!'90+0-(.!'##2*26"' /'" 4-,!"'0!&-"!'#!!/'
$&#26"$' ? '#0/(' ' 1!/' %0-% 4&0-@
(0/% 0-7!-("' 1#4-7'0++"' (*/' &' '' &' 1#4-@
7'0++"' 4&!3&-;'" "/' (*/' %*!' 4&!(' ;*+#' 1"(%
(*!."/%' ,!!%%' ;*/'%#'" #"!:'-"(*!'/' 1'
' ' d 0'":%"/(-*/ +*%%'0#@4-,!0/%*!' 0-&&"!'"
&0/2# #0/('&0' 2*/."'(0%-*/' *'#-/0-'" *!' 0-&&"!'"
"&0' 0';-"" 10-'"#!!/' "#4-7'0++"' '8' 0' ;-"' ['#-"
#"(' #4-7'0++"(' [@#"((!(' .' B))' -' #-%"(@
.*!(5' (*!('1#4-7'0++"' "($*!('#.0!'('U *!'-"'
%@ -+*/' /$0/%-!J %*+;"/% %*!(' %'*-(' # %'
- , ' *!'(!-.*/(#"/'(#4-7'0++"(' "(":",!"910-
%'*4' 0%+#*-/' '3 ' '* + ' N +&*8# 0#9"2%-."+"/%'
"+4&*-' ,!-' /!"(4&!(' "/'!(07"' "&0' +"' 40'0%% $*%
#4-7'0++"' ('.' YA' N I' "' #' 2!-(-/'' 4-@
7'0++"' #107/'0!' '07*#%0!' ;&0/2 #0/('&"' &"*/
$0-% "/%'" !#"('40'%-"(' -/#'-"!'(#' 10/-+0&'
#%'&"%%'"('"/' #4-7'0++"'
' ?' 4-H++"0' #%# &*/7%'"+4('#'" 7"/'"
-/2"'%0-/5' 0!9*!'#6!-' -&' "(% $#+-/-/' ##2-##+"/%
?' #'" c!7&-2;"+' /10' 40('###0-7/#' #'" +*/%'#" 0!'
4!;&-2' &'" 20(' ,11-&' $0-% #'" 2"%%%"2*+##-'" 40"' #"!:'
#4-7'0++"' ' 1!/' $'0/H0-(' "% 10!%'"' &0%-/' '
A ' &/ ' , ' ' 4-7'"++'" "(% -2-' #0/(
&'" (+-('#!'/'
'O.'1(' ?0-('- 0.0/$07"' 0<0'" #'" 0&$
0'#*//#' ['/*(%'" &0/7!'" &'" /*+' # 47'0++"(' "%
#1 &"7-"(' 0.",' 2"' ;"0!' +*%' 2*+4*H -7'"#*10-
0$-/',!*/' /10%%'-;!'" 16*//"!"#'"2"(26*("(['", "&@
,!10!%'"/! 'DW' * ' 8' 0' !/' "4-@
H0+"' "/' ?0'%-0&' ,!-' "(% #"' ;*('!*!-' +'
' 8'0"/%'" 0!%'"(' !/'" +"//'" (%0%!"' (*!;(
&0,!"&&'" "(% "67'0.#' 2"(% "4-7'0++'" U#4-7'046"'
-/(2'-4%-*/J' $ 'A ' M
'$- ?'1 /-8404 40'-/(2'-4%-*/' 4"%-%'" 4-#*'" "/'
."'(' #'" --'&' (!'' "%840$"-.' #*-'"
-?0./#' D#@4-@7'0@$E' ' N F /(2'-4%-*/'
+-("' (!'" !/' #%-$-2'" 4*!' "/' +0%,!"' &0' #0%"' &0'
#"(%-/0%-*/' "%2' N d *!'%" 2-%0%-*/' ,11*/' +"% "/'
%#%"' #1!/' #!'.'07"' *!' #1!/'" ;04-%'" 4*!' "/' -/#-@
,!"' 1"(4'-%' ' 0' 4'-(' 4*!' #4-7'046"' !/' ."'('
#1 *+ '"
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-/(2'-4%-*/(
'$- ?' "
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4'*4'" [' 1#4-7'046"' %8&'" #4-7'046-,!"' N Q!-' "(%
"&0%-$' [' 1#4-7'046-"' %!#"(' #4-7'046-,!"(
' D"@4-@9-@/1E' *!' Q 'D#@4-@9-@
/-@[1E' 6' "'+'" #'" ;*%0/-,!"' Q!-' /0&%('%&!*&2
.0-'" *!'0%-@#"((!(' *'*&&"' #%0++-/"('#4-78/"(
'$- ?'1 -%&' (!'' "% 8!.-H' $"++"'$"+"&@
V@# -*H #' D#@4-@9-@/-"E' ' ' "'+'" #'" ;*%0/-K
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+-/"('("/%#4-78/"(
$' D#@4-@ 0/@(1E' ' ' "'+'" #'" $0!@
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' 'O I' (' 4-&"/2"' #0/(' 9
' '$- ?' *'+"0%%#'#"' ' " 'D.*8'2"/*+E'
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6' "' #10!0%*+-"' Q!-' "(%' ,!-' 40(("0!@
#"((!(' #!' &0'8/:' "(46#/*+[/"('#4-&0'8/7-" '#'"
&0'4;*/0%-*/
'$- ?' I -%&' (!'' "% 4
%' # D#@4-@&0@(-*/E' ' ' 2%-*/' #10''0@
26"'" #"('4*&&(' N "'+'" #'" '/##"2-/"' .!&(-*/' #'" "!'
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'$- ?' "
#' 'D#@4-@&#' #"E' 40'%' " /"#%# #"
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'D#@4-@&#@4(-"E' S' ' "'+'" #'" +##"K
2-/"' $$"2%-*/' 2#'#;'0&"' 20'0"%#'-(#'" 40"' &0' 4"'%"
(!;-%'" #'" 2*/0-((0/2'" "% 40'" #"(' 2*/.!&(-*/(' /'"
0%%0,!'" #1#4-&"4(-"
' + 'O I' (S'" *!&#'*8'" Q!1-[' $!(("/%
+*'(' #!' +0&#1"' (4-&"/2"' ' 0
#0/(' 2! ' 'O I' (' 4-&"4(-'" (-7/-$-'" (!'4'-(-"/'
!''"%"/%--"' #"%"%*/('&"(' ("/%-+"/%'" /"#%#"' /*++"
0!((-' &"' +0& 0-/%%&'"0/' 4*!'2"' ,!" &0' %"(#%#"' #!'
(0-/%' S"0/' 26"'!% "/' %"''' &*'(' ,!1-&' $!% #"204-%#'
4!-(' 4*(#'" #"#0/(' !/' 4&0%' [' 1044"%-% #1 "'*#-0('
' =' Jc
$- ?' '*."/2' " ' " " '
"(407/' " ' ' ' #'" #%-0-& 0' (!'K
4'-("'#4-&"4(-"' #'" ' (!'' "% 00N-M .M-."4'"/#'"
$' # +#.& M, ?%#' D#@4-@&#@4%-@$*'@+1E *#9 "'+"
#'" +##"2-/"' Q!-' (" '044'*26" #"(' 022-#"/%(' #'"
1#4-&"4(-"' (0/(' ##4" /#'"#"' &0' +#+"' 20!(0' */K
7"(%-*/' #4-&"4%-$*'+"
'$- ?' " " +, ' "%
Q 'D#@4-@&#@4%-@[1E' 6' N I Q!-' "(%
#"' &0' /0%!'"#'" 1#4-&"4(-"' */.!&(-*/' #4-&"4%-,!"('
' d Q!-' 8' "(% (!9"%' "%%"' 4"'(*//"' "(% #4-&"4%-,!"
' !;(%0/%-."+"/%' "(#4-&"4%-,!"' (' /' #4-&"4%-,!"
'O I' (' *2!' "' %*'%' "4-&"/%-2' !"%'
7!%!(' U7*!%%"!:J "' 4&"!'"2' >, ' '
, '3' M' U$ 7/"' ' /.!;-*/(' "4-&"4%-,!"('
' 22'1 ' M
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'D#@4-@&#E' "'0'N "'026"'' $0-''"%*+@
;"'"&"('4*-&('*!'&"('26".'!:' N ;(*&!+"/%' /7!"/%
4*!'" #4-&"'" 4*!'" N I' /&"."'&"('26"."!:';&0/"/%' ('("
$0-% #4-&"'" 4*!'" 2026"' (*/'&H"' H Yd /&".'"'&"('9"%('
#"('4-#'"("' #"%0-/' $*/#!"(' ' I' 1#4-&"'"' ' '
1#%"' &"('26".'!:' "%' "/' 40'%-2!&-"'' &"('26"."!:
;&0/2(' (1#4-&"' 260,!'" +0%-/
'$- ?' ' 4*!'" ' 4'#$-:"' "% &"' &0%' " , '
4*&&5 4-20'#'
5'# >?' 'D#@4-@&"!' ? @<1E P' ' "%'
"&!-' ""&&"' ,!-' #4-&"&
$'# >H T># D#@4-@=@+/-@[1E' 6' "'+'" #'"
7#*&*7-"' "' #-%#"'("%"'0-6('&02!(%"'(' (!4#'-"!('
'$- ?'1 -%&' (!'' "% 0%4./' +0'0-(
'D#@4-@&&#' + !- #"(5' &"' D' /"' ("' &-"
40('#0/(' &'" 40'&"' *'#-/0-'"5' 0!' 4&!'-"&' 1(' ("' &-'" >
&"('#@4-@&-#@2' 077&*+#'#(E' '%/ "'+'" #'";*%0/-,!"'
!;#-.-(-*/' #!!/' #4-2*+4*(#
'$- ?' -+-/!%-$ % "
%'# '2'# 'D#@4-@&*@;1E' ' ' (-"" $&"!'-
(" 1 , ' "* , ' =5 D*/07'0'-#"(E' #-% 0!((-
&0!'-"'"#'" 0-/%@ /%*-/"
'$- ?'1 0&' (!'' "% O* *-5 D.*8' E
% 'D#@4-@&#@70@(-*/E' ' ' 2%-*/
#1#4-&*7!"'
'O I' (4-&*702-*/' "1"(% &*/7!'" 2;*("
;'-"$."+"/% '02*/%#"' "' 7 ' "
'$- ?' " ,
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+"/%,!-' -/#!-% #!!/' $0-% ("/(-;&'" [' !/' $0-% 2026#
'$- ?'1 -%0*8DAN% _' #"--2&' (!'' "%0*8-"%:#5'
'0-(*//"+"/%
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(-*/' #'" '#(!+# 4&02#' [' &0' $-/' #!!/' 04*&*7!'" *!'
#!!/' #-(2*!'(' "% (!'%*!#!!/' &-."' /' #4-&"4%-,!"' 0'
+-('#"('#4-&*7!"' [' &0' $-/' #"' 4&!(-"!'('&-."'(' #" ("(
0;&"(' 1#4-&*7!"' #!'4*#+"' #" S*2"&8/
' ' Y .I' (' ' $0-% a*/' "48&*7!"*6'-&''"204-@
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' $% G#-%-O*8*-> #"#P&' (!'' "%0#8*P #-(2*!'(
'D#@4-@&*@76#' 76#"E' " , "
Q!-' 0' #%#&* ;9"% #'" 2*++"/%0-'"(' 4"!'26['-%0;&"('
0'2*/#!-%'" #4-&*7!#'" "/'2"/% $0,*/(
'D#@4-@&*@76#E' N I 9' ' 6"'26"''
%'*!."'['"#-'"' 1"(% 1"6*++"' ,!-#4-&*H"' (!"
%*!%' ' %4*!' ,!*-' (1-&' . 4&0-%' !-' ;0-&&"!' !/'
(0.0/% ,!-' (0/(2"(("'#4-&*7!"3' ' - ' / 3' Y'
#-"!'+0' 26#'" "/$0/%5 ."/"< "%' 40'%-"< '"%' "/'<@
.*!('#*#'" !/'" $*-('4*!'" ##2-##'" "% ##$0-%-"(@.*!('
#1#4-&*7!"' (!' &"(' ;-"/#0/2"(' #"' .*%' .*807'
(.' = ' *2%' MA-- &$!% 0%%"/%-$['#4-&*7!"'(1%
&"('40'*&"(' ' &/ ' ' -/,'0!/"('4*!'!/' 60K
;-% [' 1" 40H*&'" 9!(%" 2-"&& ' +0-(' /1#4-&*7!*'('
40(' [@#"((!(5' &"("(%0-&&"!'(' ,!-' ("/%' "'#4!%0%-*/'
"/' 4'"//"/%"/%%*!9*!'('4&!('' ,!"' &"'('0!%*!'"
2 ' '4 'A'N I' ' *' "/(!'"'' 4-&*7!"'"-0'
02%-*/(' #10!%'!-' 0/(' ,!!*/' .*!('#4-&*7!"' "% (0/('
,!!*/' .*!(' +#4-'(" ' A'NE I' 1 @
4 *7!"'3' ' '*-%-,!"'+!%!"&&"+"/%

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!*-/ˁ M ˁ ˁ , , ˁ-ˁM ˁ ŃŃ OI' "'+"'#"'
<**&*7-"ˁ "' <**468%"' &!-@+M+"ˁ "/'" #!0/-+0!:'
-/."'%#;'# #"(' '"+;'0/26"+"/% #"(' '08*//#('
J' Bď "'+"'#"'260(("ˁ "'%0&*/'#"'&O'6j%"'ŃŃ ď "'+"'
#16-44-0%'-,!"ˁ !+"!"' +* "' ,!-' ("'#M."&*44"' 6' &O'
4*-*&"'#!'2*!#"ˁ 26"<&"(' 26".0!:ˁ "%' ,!-' "(% 20!@
(#"' 40" #"(' 2*/%!(-*/(' '$"4H%"'(' #!!/' 4-"# **/%"'
!0!%"'ˁ ŃRí "'+"'#"' ;*%0/-,!"ˁ 4*/7"' #!#7&0/@
%-"'ˁ 4'*%!;"'0/2"' #"(' '*(-"'(' '!&70-'"+"/% /*+@
+$"'' ;##"70'ˁ ŃŃ Mˁ "'+"' #"' 26-+-"ˁ $-4*/7"' *!'
+*!(("'#"' 4&0%-/"ˁ 4&0%-/"' (4*/7-"!:ˁ4'*."/0/%#"'
&O' #"2*+4*(-%-*/ˁ 40"' &"' $"!ˁ #!' 26&*'!'"' #"' 4&0K
%-/"' 0++*/-020&ˁ "% ,!-' O' &O' 4'*4'-"%"' #!"/$%0++"'
!/' 2*!'0/%#168#'*7;/"
ˁ 'O I'(ˁ ˁ $"'O' '"/#"'' 7*'7"' ;' 2"(' "(@
4*/7"('ˁ "%&O'"*/(#"('#"O&"'(4!;&-2('# ˁA ˁ4'
AAˁ 1*/'%'"+4"' !/' "(4*/7"' $"+"&"'D*0"%"&"'("%4&!(
&-(("'#"' "%#*!2"' 4*!" (*/' "70&-%"' ,!"' "(4*/7"' +0(&"E
"/'&O#-%"' #"2*2%-*/'260!#"'ˁ ;ˁ :.:ˁ)ˁ 0" "(@
&O'7-"' "% 40" 4'"(("'ˁ*/'.*&% 1"(4*/7"' ;*-'"' "% 4&*!@
.*-'ˁ $- - ˁ< * ˁ %ˁ--ˁ4ˁ M
ˁ # $ ˁ '*."/,ˁ " 6 ˁ " ˁ "(407/ˁ
" 6 ˁ-%O&ˁ ", ˁ #!ˁ &O%-/' " ˁ 7'"2ˁ
'% *3@
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2;O&"'-"ˁ 1":%'"+-%"' #"' 260,!"' ;'0/26"' #!' $"'ˁ ;
26".O&ˁŃŃ F 6;((-(' ;*'#0/%&O'%O;&"' (!"&0,!"&&"' */'
2*!&"' &"' 4&*+;' "/' /044"(
ˁ 'O I'(ˁ "(' "(4*/#"(' #!' 4-"# #!'9"!/"'
2"'$' 4&!(' %'0/2;0/(' ,!"' 2"&!-' #"' &O' ;-26"ˁ A , ˁ
$I' ˁ/
ˁ # $ ˁ '*."/3ˁ " ˁ ;*'#ˁ ":%'#+-%#5
20%0&ˁ " ˁ "(407/ˁ " ˁ #!'&O%-/' " ˁ
;*'# #!'&-%ˁ A " ˁ "(% #"."/!'40" 0((-+-&O%-*/'
"% O&%"'O%-*/ˁ "
$- $-ˁ $- ˁ D;@4*/@9"ˁ 9#"E"ˁ ˁ" ˁ ;@
(*';"' 0."2 ;4*/7"' 1"0!' ;4*/7;"'ŃŃ "%%*8$-ˁ 0."*
1;4*/7"ˁ "(20'"0!:' ;-"/' ;4*/7;(
ˁ D;@4*/@9;ˁ "' ˁ 4'"/# !/' ˁ ,!0/# -&
"(% #".0/% O' *!' '5' 91;4*/7"0-(ˁ ;4*/7"*/(E'/ˁ ˁ
&&I' %0/26"' 0."2 !/"' ;4*/7"' *!' ,!"&,!"' 26*("'#"'
(4*/7-"!:ˁ 4*/7"< .-%"' 2"%%"' "/2'"ˁ ŃŃ ď "%% 8"'
0."2 1;4*/7"ˁ 4*/7"' &"(' 90+;"(' #!!/' 26".0&ˁ
ˁ *'"ˁ &"' 40-/' #!;4-2"' 0."2 !/"' ;4*/7"' -+;-;;"'
#"' 9O!/"' #!+!$' ŃŃ YI' 1;4*/7"'ˁ "ˁ ˁ 1"((!8"'
S"' '!-(("&O-(' #"' (!"!'9"' /"' $O-(O-(' ,!"' +1;4*/7"'
ˁ # $ ˁ /*'+ˁ A "
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7"(ˁ +"% 4&O-(0/% 2';-;"40" &O' */%O-/"ˁ 0+0'0#"'
ˁ;4*/7-"' U1;/"' 260'7;' #1;4*/7"(J 4'-% ":0+4&"' (!"
ˁ&!-' U1;/"' 260'7;' #"' ("&J' *++"' !/' +*!%*/' ,!-' .O
#"((!(' &O' $*-' #!0!%'!-ˁ ˁ - 1ˁ--ˁ%*
I 5 # ,H&# D;@4*/@%!Eˁ ˁ O 40'*&' (!4;'-"!'"' *!
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ˁ #*-(-;'"(J /1"(% 40(' &-+-%;"' 40" #"(' ;4*/%(' 20'02@
%;'-(;"(ˁ 9 ˁ0 ˁ * ˁ BM ˁ ˁ ˁ4ˁ &-A
ˁ $ ˁ "' ("+;&"' !/' #;'-.;' #"'
%ˁ ˁ D;@4*/@%-@ O@9!ˁ ˁ +*!-&&;"(E'
ˁ ˁ "'+"'#"' +0'-/"ˁ 2%-*/' #"' 4&O2"'' #"(' ;4*/@
%-&&"(' 4*!"' ;%08"' &"(' 4*/%(' &"(' 70-&&O'#(' "%2
b9@$- ˁ D;@4*/@%-@-ˁ ˁ +*!-&&;"(E'ˁ ˁ
ˁ"'+"' #"' +0'-/"' %O-' #"' $"'ˁ*!'#"' ;*-(4&O2;' ."'@
ˁ %-20&"+"/% (*!(&"((;0!:"% ;O''*%('"/%'"' &"(' 4*/%(
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ˁ # $ ˁ -+-/ˁ&& " ˁ 40'*-' (!4;'-"!'"' *!'
-/$;'-"!'"
%ˁ ˁ D;@4*/@%-@&&;ˁ-&' ++!-&&;"(E'/ˁ ˁ
"'+"'#"' +0'-/"ˁ *!%ˁ 0."2 #"(' ;4*/%-&&"(
? ˁ D;@4*/@-@+1Eˁ 6ˁ ŃŃ F 10'26*/%"'
;4*/8+"'ˁ*!ˁ (!;(%O/%-."+"/%ˁ 1;4*/8+"'ˁ &"' 4"'K
+-"'"' #"(' /"'!$'O'26*/%"(' #!' %6;/"(' ,!-' #*//O-% (*/'
/*+' ;' 10//;"ˁ ŃŃ I "' #-% 0!((-' &"(' #*-.-/-%;(' ,!-'
#*//O/%' &"'!"' /*+' ;' !/"' -&&"'ˁ 10.0-"/%' (*!(' &"(' ,!-'
4'*%"2%-*/ˁ "(' #-"!':' ;4*/8+"(' "%ˁ (!;(%O/%-."@
+"/%ˁ&"(' ;4*/8+"(
ˁ # $ ˁ1 %g.!4*2ˁ #"' ;9%&ˁ (!'ˁ "% ;.*4-0ˁ /*+
,.## D;@4*@4;"Eˁ ˁŃŃ I' 0/(' !/' ("/(%';(@
7"/;'O&ˁ /0'O%-*/' "/' ."'(' #!02%-*/('7'0/#"(' "%6;@
'*&,!"(ˁ 3 ˁ 26*-&"(' ˁ"2(ˁ &"' A 1 ˁ
26"<&"(' /#-"/('&"('.1 , ˁ 26"<&"(' &&"+0/#('
26"</*!(' &"(' 4*;+"(' #"' *&O/# "% #1 '%!((("/%#"('
;4*4;"(ˁ 4*4;"(' 4'-+-%-"('4*;+"(' #0/('&"(,!"&('
2"'%0-/(' 4"*4&"(' 0.0/% &O' 2!&%!"' &-%%;'O-'"ˁ*/%
2;&;;';&"'!'(#-"!:'"%&"'!'(6;'*('ŃŃ F 0/('!/('"/(
4&!('"(%'"-/%ˁ&"' 4*;+"';4-,!"4'*4'"+"/%#-% (*!@
+-(' ;'"('; 7&"(' 0."2 (*/' +"'."!:ˁ ("(' ;4-(*@
#"(' "%2ˁ 1"(% -+-%0%-*/ˁ*!ˁ *!'ˁ;2-%ˁ #!!/' 02%-*/'
-/%;'"((0/%"' "% +;+*'0;"' 0-/(-&1;4*4;"#-#;'"#"'
16-(%*-'"ˁ ,!-' '02*/%"' (0/(' -++-%"'5' #!' 4*;+"'%"'
+0%-,!"ˁ ,!-' 4"-/%"' "/'02%-*/5#!'4*;+"#-#02%-,!"ˁ
,!-' "% !/' %-((!'#"' 4';2"4%(5' "%#"($O%("('/*."'('
,!-' /"' (*/% !!!/"' (!-%"'#!;.:/"+"/%(' (0/(' !/-%;'
? ? &% ˁ ˁ :A ˁ %ˁ .--ˁ4ˁ M

#0/(' ˁŃŃ 4*4;"2*+&,!"ˁ ;0#-/"*!'6;'*&@
2*+-,!"ˁ4*;+"ˁ;4-,!"*6'&"(' ;.;/"+"/%('(*/%"%'O@
."(%-(' (*-% ,!"'&"' 4*;+"'%"' 4&O-(0/%"' (!"'!/'7'0/#(!@
9"'%ˁ 40"' ":0+4&"'&"' *&O/#$!'-"'!:'#"' 1 '-*(%"'(*-%
,!!-&"'/'ˁ"60!(("' !/' 4"%-%-%-ˁ 40'":"+4&"'ˁ !%'-/#"'
-&"'O!ˁ ŃŃ -7ˁ !-%"' #!02%-/(' ;2&O%0/%"('#-7/"('
#"' 1;4*4;"ˁ "' /1;%O-%40(' O&*'(' (-'"'2"%%"'ˁ;4*4;"'
!"' .*!(0.-"< /07!;'"' ;2'-%"' 0."2 1;4;"ˁ '2*&"'ˁ
!(%"'&-%-<ˁ ?*/%+-'O-&ˁ . / ˁ ", *'M
ˁ # $ ˁ 1 %-%-$Oˁ #"' ;/*Pˁ 4*;+"ˁ "%-'*-(%.ˁ
$O-'"
%ˁ $- ˁ D;@4*@4$Eˁ ˁ ˁ "'+"' #!0/%-,!-%;'
7'"2,!"ˁ "&!-' ,!-' ;%O-%O0'"-.;' O!'%*-(-;+"' "% #"'K
/-"'"7'0#"' #0/(' 1-/-%-O%-*/'O!:' +8(%;'"(' #! &"'!(-(
ˁ # $ ˁ 1 -%;!% =4'*4'"+"/%2"&!-' ,!-' .*-%ˁ
#"' ˁ (!ˁ "% ;-"%4*%%ˁ .*-'
$ ˁ D;@4*@4%-"E' ('$' -7/-%;' #1;4*4%"
ˁ # $ ˁ 1 -2*/.(%O' D.*8ˁ # @
ˁ Q ˁ D;@4*@4%-@[1Eˁ 6ˁ "'+"' #"' 468K
(-,!"ˁ "' #-% #"(' 2*!&"'!'(' ,!-' ("' 4'*#!-(' "/% ;' &O'
(!'$02"' #"(' &O+"' ('%'0/(40'"/%"(' ,!0/# 2"(' &O+"('
(*/% %' ;(@+-/2"(
ˁ # $ ˁ 1 -#ˁ (!'ˁ "% 1 7 ˁ .*-'
V Q ˁ D;@4*@[1E ˁ ˁ d *-/% #;%"'+-/;ˁ
#0/(' 16-(%*-'"5' +*+"/%*$% ,!"&,!"' $O-%"'+0',!O;&"'
(1"(% 40((' O /0-((0/2"' #"' ;(!(@ 6'-(%"(% 1;4*,!"'
6' 2++"/2"' ;'"26;%-"//"' "% #"'O-(' #"' &"' (*/%
'!-/"' #"' '*-"'"O''-.;'"/.-'*/' O' Y (' 04';(' &O'
(*'%-"' #1 784%"' "% M ˁO/(' 04';(' &"' #;&!7"' "(%
2*/(-#;'0;&"' ˁ ˁ ˁ-ˁM ˁ .0/% 1;4*,!"' #"' &O'
&8+4-0#"(' &"(' 6#-"/(' (1044&-,!;'"/%' ;' &O' +OK
'-/"' # $ & * 26'AY ŃŃ "' #-% 0!((-
#1;.;/"+"/%(' '"+0',!0;&"(' *6*-(-(' #0/(' 16-(%*-'"
4*!" 8' ;%O;&-" #"(' #-.-(-*/(' "% #"(' 260,!"' "(402"'
#"'%"+4(' ,!-' (;2*!&"' "/%'"#"'!:'#"' "(;.;/"+"/%('
ˁ $0!%0.*-"2"'%0-/(' %"+4(' +0',!(' 40"' ,!"&,!"'
7'0/# ;.;/"+"/%0!,!"'&O'*/%O44*%"'%"!"' "(% "'5'
21"(% 2"' ,!-' (1044"&&"' ;4*,!"' #!!/' +*% 7'"2' ,!-'
(-7/-&-"' (!0'';&"'!' 40'2"' ,!!*/' (!0''%"' 4*!' 2*/O@
#;'"' 2*++"' #!!/'&-"!'#"' '4*(' %*!% 2"' ,!-'"(% 0'K
'-.;' #".0/% *!' 04';(
ˁ $O!% 4'"+-;'"+"/% ,!"'9"' 40'2*!'"' 0."2 .*!(' &"(
;4*4,!"(' ;' 4'*4*(#!!/"' ;4*,!"' "/' 9"' ."!:' .*!(' ,!'
,!0/# "' #*/'"' &"' 4*+ #!!/"' ;4*,!"' "/' 4*;(-"
,!"' 1"(% 4"!' &0' +"' !/' ;4*,!"' "/' ;4*4;"'
!"' '"+-;'"' ,!"' 1"0!' "/' ;4*4;"
,!-' (1044"&&"' 1;4*,!"' #"' 26"(-&&"'"/' 1'
4&O2"' (0/(' 8' #0/(' ;&0' 2;&;+"' 2602!'"'#"'&O' 91022*!@
%!+"' *%'"' "(4*,!"' (0' 4;'-*#"' #" +0/' 2"(' ;'&"'!'
4&O2" (0/(' 8' "70'#"' 0!%"' 26*(' ,!"' 1*'#"' #"('
%"+4(' 1ŃŃ 0"' ":%'/(-*/' ! :'! 1&('U&"('(+0!@
.0-('4';%"'(J (*/% &"(' 2*!'14&%"!' ('#"' 4"4&"('&"('
(*!'2"' 4!;&-,!"' #"' &O' #;20#"/2"' #"' +*"!'(' &;
4"+-;,!"' ;4*,!"' #"' &O' #;20#"/2"' #"' +"' ('
#!' ;20#"/2"' #"' +0!:' ;' &"' 2*!%"' #0/(' ;2&O-
ˁ >7*' ,ˁ ŃŃ 0-"' ;4*,!"' "' #-%
#!!/' $O-% -+4*'%0/%"' "%" '"+0',!O;&"' *!%(0.*'(
,!"' &"' ;-"/% 40(' &"' $O-%-&-&"' ;4*,!"' ˁ
"'!!(' >ˁ ˁ &(' "'O' %*!9!' 7'0/#' 10.*-"'
%"' /%6)' 2"' 4*9"% $"'O' ;4*,!"'!:' "'#"'
* ˁ &) F ŃŃ I *!%"' 40'%-"' #!'%"+4(' 40"' '04K
4*%' ;' 2"' ,!-' (8 40((' ;4*,!"' #"' (*/' +0'-07"'
S1;&0-(' ;' 2"%%"' ;4*,!"' %';(@&*-/' #"' 0-(' 1;4*,!"'
#"(' -/.0(-*/(' ;0;'0('' #"(' 2'*-(0#"(' "%2' -' &O'
."' "/' "$$"%' /1"(% ,!!/' $O4-#"' -/(%0/%' 0-(*/(@
"/' !/"' #"' 1;4*,!"' "% ,!-' +*' 0;&"'
"' ;%-/6"++"' !/' .-"0!' #"' 2*/.(0(2"'#"'
(*/' ;4*,!"' ;' 6*++"' ,!-' 2"%"' #"' ;4*,!"' #"(
+-"' #"' 4&!('4'*+4%"+"/% ;' #"' 4'*%"2%-*/ #"' &O'
!'%"' #"' 4;+"'&"(' ' 4*!';' "' ;4*,!"' #"'
+-"' 4*;+"' #"' +*4*' ;' 4*;+"' 2"' 2*+4' 2"'
-/(%0/%' 2"% 4*;+"' 4*;+"' "/%"' 2"' ;4*4;"'
-/.0(-*/' 2"%%"' '0%-*/' &"' ;4*,!"'
,!"' 1"(% 0!((-' !/' ;4*,!"' &"' +*' 4*;+"' #"'
"%' "' 1;4*,!"' ;' &"' ;4*4;"' 0!:' ;4*,!"'
ˁ ? 1 -%*:H&' #"' ;/(:"%.ˁ '"%"'/-"ˁ #"' --%&ˁ
(!"ˁ "% -:(%.ˁ 0.*-"ˁ 40'2"' ,!"' 1;4*,!"' "% ,/'
4*-/% $-:"' *;ˁ 1*/' (1O'"'#0/(' &"'%"+4(' "%"+4(
ˁ # ,>7#ˁ ˁ D;@4*!@(ˁ (;"Eˁ 6ˁ "'+"' #"' #"'
<**&*7-"' Q!-' /!O' 40(' #"' 4*!2"(' (ŃŃ#ˁ ˁ *+'#!!/"'
$O+-/"' #!*-(0!:
ˁ # $ ˁ > 4*!"' ˁ 4';$&:"' "%"C,
ˁ D;@4*!@#' ;' #';"Eˁ ˁ
,66?#?D;@4*!@#';Eˁ/ˁ ˁ $-&"' &O'4*!((-;'"'
&O' 4*!#'"' #*/% !/"' 26*(' "(% 2*!."%"' 4*!#'"'
#"(' +"!;&"('(' ŃŃ /' #-% 4&!(' (*!."/% ;4*!(("%'
ˁ O I'(' /'408(0/' ,!-' /07!"' 0.*-% "(%;
0!' #-% 260(%"' &"' "%' 2*++"' -&#-(*-%' 0.*-% "(4*!#';
%*!(&"(' ;-;(#"'&"0/('#*/O ;"' /%"' /#'"' ,!!-&' "(%*-%
-+4*((-;&"' ,!!-&(' 4!((("/%' 0 .-/' "/%"' /%"' 4&!('
60!&% #!!/' +*-(ˁ ˁ J J
ˁ ?'>'4*!"'(' 4';$-:"' "%4*!#'"'
6MM#ˁ ˁD;@4*!@$;'$;"Eˁ 6ˁ "'+"' $0+-@
&-"'ˁ Q!-' (1"(% "((*!$$&;'4*!"' !/' (!9"% (0/(-+4*5

%0/2"' &' "(% ."/!%*!% ;4*!$$;' /*!('044*'%"'(("%%"'
;"&&"' /*%%."&&"'
ˁ ? ˁ *8ˁ #
;'# ˁ @D;@4*!@$;E'P ˁ ˁ "'+"'4*4!@
-0-'"ˁ "' #;'*;"'ˁ #-(40'0&%'"ˁ (1"/$!-'ˁ *++"'*/'
&"' 4*!'(!-.0-%ˁ -&' (1"(% ;4*!$$;'#0/('&O'$*!&"
ˁ ?ˁ0 , ˁ 0."*' &"' 4';$-:"' "(ˁ -/#-,!0/%
":%'02%-*/>'2"((("' #1;%'"' 4*!&$0/%*!' ;*!$$0/%' #-"@
4e-!B- %'MI
%ˁ ˁ. ˁ @' D;@4*!@$;Eˁ P ˁ "'+"'
$0+-&-"ˁ 1"((*!$$&"'ˁ/"' ("' #-% 7!;'"' "/'2"' ("/(' ,!"
#0/(' &O' &*2!%-*/' (!-.0/%"' (1"4*!$$"'' #"' '-"'ˁ *-'*'
0."2 ":2;(' "' ,!"' &O'9"'!/"' +0'-;"' &"%"' !%' 4&O-K
(0/%ˁ ,!"ˁ (1;4*!$$O/% #"' '-"' "/' 2*++"'--30/% #"'
;*-"' "&&"' 2*!' '-%&"' .-(07"' #"' (O' ;"&&"'@+;'"' !'
ˁ< ˁ* ˁ/ˁB
ˁ 'O I'(ˁ %&"'&O' #0+"' U&O' #0+"' 1"/%"' /#J'
#"' '-"' (1"(;*$-ˁ 'Aˁ 2 ˁ .ˁ IM'ŃŃ:.-I'('
++"/2"'%' ;' (1"(;!$$"'' #"' '-"' # ˁ
ˁ +0%-/;'"
ˁ # $ ˁ0 , ˁ*!1 , ˁ0."2 &"' 4';$-:"'
-/#-,!0/% 0!7+"/%0%-*/ #-&0%0%-*/
ˁ D;@4*!@&;ˁ ;"ˁ +*!-&&;"(E
" ˁ "
$- &O ˁD;@4*!@ ;ˁ +*!-&&;"(ˁ "% /*/'40(
;@4*!@8;E'3ˁ ŃŃ ď 6"'26"'&"(' 4*!:' ,"&,!!/'
!(' +"' 40'&"< $'% 2*++4&0- (0++"' #"' (0-/%
,!-' .*!(' "(% &-!/"'ˁ 4*!-' ;4*!-&&;"' ;%*!
++"/%"' (.ˁ AB ŃŃ I' 1;4*!-&&;"'ˁ/ˁ 6"'K
26"'(("(' 4*!:' /'7!"!:' ,!-' (1;4*!-&&;"
ˁ 'O I'(' &(' +"%%%*-"/% 4*!'($0!2*/('0!'(*@
&"-&' 4*!"' '!&:' "(4*!"-&&;"' "% ("+;&O' +"/%!*/!"%
&"!'(' 4*!&< "+4;(' &"'!'(' $0!2*/('/' A ˁ
$I' R' #0/('
ˁ 1 ? > 4*!" ˁ 4';$-:"' "%4*P
$ ˁ D;@4*!@&O'@#O@9!Eˁ I' + 2%-*/'
#1;4*!&O'#"'
9@ ,>+0?6#? D;@4*!@ 0'@#;E'P'O' "%%*8"'
&"(' $"'!-&&"' "#"' %O;02 0.0'-;"(' ,!-' 4*!'0-"/% 2*+@
+!/-,!"' O!:'O!%"' !/"' +0!.0-("#"!'
V9@ D;@4*!@1Eˁ ˁ *8ˁ
5 # ,>++H D;@4*!@&-/Eˁ ˁ *8ˁ
,>/,H#ˁ D;@4*!@+*@/;ˁ /;"Eˁ "
4*!+*/;' ;$*'2"'#"' 2'-"'
? D;@4*!@+*@/;Eˁ/ ˁ ŃŃ I' O%-7!"'
&"(' 4*!+*/(' ;' 40'&"'' ;' 2'-"'ˁ "%%"' &"'2%!"' +1O
;4*!+*/;'ˁ I' 1;4*!+*/"' /ˁ ˁ $O%-7!"'
&"(' 4*!+*/(' !'4'-(' 04';(' +!;%"'&"(/7%"+4(' ;4*!K
+*/;' #"' "'-"' "'-' 40'&O%&"' #"+*/%"' #"' &O' ("'"&"'
,!!O%-' ;&O' &O' 6"'0!%' #"' +*' .-:ˁ ˁ ˁ
!ˁ *!' ,!*+-!*'"'0-(@9"' ;#-((-4"'!' !/ #*!%!%
,!"' .*!(' /0."< 40(3 -* ˁ C"
:04 5
ˁ ? /' /"' .*%' 40(' 4*!' ,!*/' ;20#;' +"/
+"%' ,!!' /"' ;' "' "%0!#-;' ,!!&&"' /"' +"%
#"!:' ;' * ˁ "% 0!%' 0/0&*7!"' &"' 40(%"!'
4*!' ,!&' "&&"' /"' (!44'-+"' 40(' 40%"!%' #0/(' &"('
20(' #"' 2"' 7'"/' &"(' #"!:' &"(' ;2'-.0-/(
ˁ "%2
ˁ ?'>'4*!"' "(' 4';$-:"' "%4*!+*/
ˁ D;@4*!@<;@ 1ˁ ++!-&&;"(E'
(0-&&"(' ((-(%"' 0!:' ;4*!(0-&&"('
ˁ :'0I'(ˁ *!(' '#*/' 2*!' "(' "(4*!
(0-&&"(' $' ˁ % 0.0/%' ,!"' &"' ."'-
(0-&&"(' ;' &"' "(4*!(0-&&"' $!((' ;(% &"' &O'
2*/.-' &"' ('$-&-' (' #"(' ;' ;%&-' 111 9ˁ ;W
Hˁ ? ˁ '*."/3' " ˁ 20%O&
0/2' "(407/' " ˁ 4*'%!7'
&O%-/' ˁ #' ˁ;4*!:
,>8# D;@4*!@<9ˁ (' ˁ *8ˁ 4*!:
,>8#ˁ ˁ D;@4*!@<;ˁ <;"Eˁ " ˁ "
ď Q!-' 0'2*/%'02%;' +0'-07"' "/' 40'&O/% #!!/'
$"++"' "%%"'9"!/"'$-&&"' ;4*!(;"' 40" !/' 6*+++"'
;;0!2*!4' 4&!(' ;7;' ,!!"&&"' ŃŃ ď &' ("' #-% 4&!(' &O'0'@
+"/%"#"' 16*++"' "'9"!/"' 6*++"' -&' +"' ;' 40" !/'
'-26"' ."!:' 1"($*'%' ;-"/%"' /"' /"' #-!5 *!(' "('<
;4*!(;5 +*-' 9"' ("'0-' 4"' /"' #-!'
ˁ ŃŃ *ˁ *' ;4*!(;' &O' $O-(O-% #0/("
,>8## D;@4*!@<;"Eˁ ŃŃ I' "&&"' !!*/' -."/%
#1;4*!"' "% ,!"&,!"$*-(' 40" 0/%-240%-*/' 2"&&"
,!!*/' ;4*!(;' ,!-' ;' 9"' "/% ."'("' 4*!-%'
4*!(;' 2"' 4*!' 2"%%"' 2"' "/%"' "' &O' ;' 4*!(;' "' #-(' 2*!
,0-&&"'(ˁ 2 ˁ - % !<0//"' +*/
;4*!(;' ,!' 2'*8"'<@.*!(' ,!!&&"' "%' 4&!('&O
A F ˁ - ˁ B ŃŃ?0'26"' 2*++"' !/"' ;4*!(;
+0'26"' &"(' 4*!(;' #!!/' +0-/-,!"' 4"/#0/%' !/
2*++"' !/"' 6*++"' ;0-&&"' 4*!"' ;(% #'
4"' ' 40'2"' 2*++"' !/"' ;4*!(;' &O'
&O'7"' 260-7;' #"' &0' !/"' 4*!(;' 9*80!'
0-/(-' !/"' ;4*!(;' ,!-' # ˁ 2*!#' ŃŃ *-' 1;K
4*!(;' 0/%"' #-2%-*/' *!(' 2*!"' &0' (-7/-$-20%-*/ #"' 0.*-'

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&87*/"(`(*/% H 0%-'0+' "/%'" "!:' &"'(,'$-%" */%
-['2M%M(`M70!:' "602!/')' 2602!/' "% 4&02"(#0/(&"
+ +" *'#'"'NN I' "'+" #" <**&*7-"' *,! &" f,!-@
&0%#'0&"'2*,/-&&" ;-.0&." ,!-' &*%(,!!*/' &0 40'%07"'
4'#("/%" #"!:' +*-%-#(":02%"+"/%("+;&0;&"(
' ' : . " (' *!" ;-"/' +"(!'"" &" 260+4
%'-0/7!&0-'" ",!-&0%"'0&' "*/.-";% &" '"#!-'" "/
,!0''-'40'$0-2%' *' ' " ' D
' f,!% ' "%
H$-Q e 'D0@[!-@&0@%@'15 !94'*/*/2#2*++"
#0/(6!-&"E' 6' "'+" #" 7#*+0%"-"' 8/*/8+"
4"/' /(-%0#!0,!-&0%#"0&' NN'(1044 ,*"(!'%*!%6 168
4"';*&" #*/% &" #"+-@0:" "(% 70&0 1*'#*//#" 2"/@
%'0&" '"/#!" '0"&&"' 10(8+4%*%" 2*!4" 40" +*-%-#
&"(0/7&"(#"%*/(-"(#-0+;%'"(2*/9!7!#(#" &&-8@
4"';*&" #,!-&0%#"' 2+!0' *!'(#" A
",' ' 4' 0PY
' '9$%%&(' ' 2*(%#(#!' %'-0/7&" ",!-&0%"'"
"(%7'0-/#"(#" U4&!(7'0/# ,!"J ("/&-."&U4"'4"/@
#%2!&0-'"0;0-((#" (!" &0;0("J&" U&0J("4%-(+" 40'@
%-"#"(*-' ", '$'%"
' ?' V+, ' "% &" &0%' , ' 2#%#
$'fQ Q ='D#@[-&@;*@[#E' 0' ' *'/ #!/
4"%-% -6(%'!+"/% #" 260'4"/%"'-" "%#" +"/!-("'-"'
,!-'("/'6 .#'-$-"" &" 20&-;'" #"(+*"%0-("(
' #$ ' ?*%(-/7!&-"' "% ,!-' 40'%#%0.*-" #"
2*++!/'0."2 1+, '&0$-/0&" 1+, '4"%-% +*'@
2"0!'#" ;*-(
%'$-Q & -'' -'' 'D#@ @&&@;'0/' ;'0/@%1E'
6' !-'#%0;&-%' ,!-'#%0;&-% 1#,!-&-;'"' 04!-((0/2"
#,!-&-H/%"
fQ S 'D#@[-@&-@;'1E'('+'NN i "'+" #" +#@
20/-,!"' %0% #!!% 2*'4((*&&-2 #40" #"!:'*!'!/
4&!(7'0/# /*+;'" #" $*'2"(,!-' (1"/%'"@##%'!-("/%'
*!' ,!-'(10//!&"/% !"!/" '#(-(%0/2"' /' +#20/-@
,!"' */' ##+*/%'0-% ;-"/' &0 /#2"((-%# #" 1#,!-&-;'
#0/(&"(20(*# -&0'-."' +0-(%+/" (0.0-%40(
4'#*-(#+"/% ",!-'&"20!(0-%21"(%2" ,!"?' 0'-@
7/*/'04"',!% 40"&0%;#*'-" #"(+*!."+"/%(2*+@
4*(#(' 9 ' *!%&" +*/#"2*/.-"/%
,!!-&8'0#,!-&-;'" "4%"' #"!:'2*'4(,!0/#&"(4'*@
#!-%(#" &"!'(+0(("(40"&"!'(.-%("((.-'%!"&&"("
,!"(%@-@#-'" 40" &"(.-%"(("(0."2&"(,!"&&"(-&("%"/@
#"/%0(" +*!.*-' (*/% #70!:' #" 40'% "% #10!%'"
"G ' 9 ' ' 4 ' >,/ '%' :-.'4' %'
V#0/(4*! ' 9 ,!-&-;'" (%0;&"' 2"&!-',!-'%"/#'
'(" '#%0;&-"&*'(,!!-&"(%' #7#"+"/% %'*!;&#' ,!@
&-;'" -4(%0;&"' 2"&!-' "(% ##%'!-%40" &0 4&!(#
7#'" 4"%!;0%-*/' NN F 0/(&" &0/707" 7#/#'0&'
#%0% #!!/' 2*'4(,!-'("(%-"/% #";*!%' (0/(4"/26"'
#10!2!/' 2#%#' "&0 "(%"/"+"/% #,!-&-;'" 16"++" $-"
#" +0'26"'" #";* %' 0/%" (*/' #,!-&-;'" #0-' '
'NN "'#'" 1#,!-&-;'" 4"'#'" &0 4*(-%-*/' *#
H 1#,!-&-;'"(" +0-/%-"/%' '4"'#-%" #,!-&-;'#!!/
"'#0/% 1#,!-&-;'" -& +" #*//0("(+*8"/(#" "(
'"/."'("'' 8 ' 9 ' .'NN -7' '-."'')'!/'2"'%0-/'
% #%0%#!#,!-&-;'"/%'" &"2'-+"'%&0 "0%!' '
M '9G' 'NN "'+" #" #0/("' *(-%-*/' #!'2*'4(
(!" !/' ("!&4-"#' NN "'+" #" +0/#7"' 2%-*/' #"
(!-.'" 0."2 #&0(%-2-%# &"(+*!."+"/%(#!' 26".0'
Bi' *!"#1#,!-&-;'" %*!" #10#"'"(("#0/(&"/'-#
+0-/%-"/%' &" 2*'4(,/"&,!"';9"%($'07-&" "/ #,!-K
&-;'" ;-"/' ,!" &"(4*(-%-*/ (*-"/%' %'#(@#-$$&2-&"(
0/(%*!%"(&"(' $*+"(' *' /' .*%$0-'("#,!-&-@
;'"(' ' *!(('A" ' / ' N d -7' S!(%" 4"*4*"%-"/'
9!(%" '*"(!'"' "&0#'*-%" '0-(*/'9" "/(+-"!:' #K
,!-&-;'" *-%' V" ' . 0'+-'&"("4"!4&"(#" &0
'#2"' &"(!/(*/%4&!(#1"/(4"' &"(0!%"/%' (4&!(#
;'0.*!'"$ -& "/ "(%26"< ,!-'&"(,!0-&%#(;'-&&0/%"(
(*/%#0/(!/'9!(%" #,!-&-;'" # ' & '26'
P ' "2!/'2*!'(4&!(&-;'0' 0'-26"(("4'"/#'0-%
!/' 4&!(9!(%" #"+, ' ' 2 + ,
/ ' Y'&& 0-'"' '#%0;&-"'"%"/-" #,!-&-;'"/#'"#"(
26*("(#70&"(' "/"< #,!-&-;'"/%'" &"(!/(%&"
0!%"(' #' \ '1' /'4"-/"(' (#4&0-(-'(-&&!(-"/
$#2*/#" #%0;&-% "/ ("2'"% #,!-&-;'" #!' +*/#"
' $ ' 'NN 1#,!-&-;'" #"(6!+"!'(
0/2-"/'%"+"'#" 468(-*&*7-"' 4*!" ":4'-+"!"!/'
9!(%" 4'*4*"%-*/' #"(6!+"!'(!/' ;*/#%0%#&(0/%#@
'NN "'+"#" 4"-/%!"' 1#,!-&-;'"#!!/"2*+4*(-%-*/'
-0 #-(%'-;!%-*/' #70&" #"(+0(("(#0/(!/' %0;&"0!'
%RI' "'+" #" 4*&-%-,!"' %0% #"(4*!.*-' ,!-' ("
2*/%-"//"/%' &"(!/((0!%"' 1-'%0/% ,!"(*/
4*!.*-' "+" U#" *+"J /!(!'0 4*-/%#!#,!-&-;'"' 0'"&&"'
!/' 4"*4&" "/' %-&0 "0 ##2&0'0# &-;'
#" ' -' & ' *-00-" -& /1&0 4*-% -2' #!0!%"
.*&*/%# #" 2*'4(,!-' '#(-(%0/2" ' 2"&&" #' 4'-/2"'
$0((" H!--;'"0."2 "&&"' -& #*-% 0''-."/%%*/%0'#
,!"&" 4'-/2" "*44*-"4"' "/$-/' &" ("/'"0-/'%" +4"
&"' %'0-#" (*-2&' 6' 9' ' */%' +' %*' S!(%-2"
' /*/' 4*!'(!-(%'-;!'/' (##%-%"!:' #%/-(%*!%
#,!-&-;'"' %' ;'-("(%*'*!'(&"'(/*/" #(' #' '
* , ' (9 1#,0-&-6'"!'*4$"/' &0 1 *

#"(4*(("((-*/("%""-%*'-0&"(%"&&" ,!"&"(%0-%#("/%
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" ' YY' ' "'+"#"26-+-"' *+'#*//# ['#"(
,!O/%-%#(+O%#'-"&&"(,!-'4"!./%' #O/(&"(2*+;-@
/O-(*/(' "'+4&O2"' #" +O/-#"' ,!" 1!/" #!"&"#
"'4'"("/%(%"&&"'*!%"&&"O!%'"' "%2*/#!-(" [' "/'O4@
4'#"-"" &" 4*-#(' /' 'O44*'%"' &"(",!-.O&"/%([' !/"
!/-%" #"2*/."/%-*/2"&&"' #"%"%-%"&%&O2""'' #"
&"(26-+-(%"(""' $'O/,O-(' "%' #168#"*7#/" 4*!'" &"
26-+-(%"(O/7&O-(' NN ,!-.O&"/% #!!/' "/7'O-(' &O
,!O/%-%#"2"%"/7'O-(,!-'4*!'!/"#7O&"(!4"'@
$&"-" #"%"O-/' !/' 6"2%O'" 4O" ":+4&"' #!-.O!@
#'O-%' ,!O/% O!:'4*4*'%-*/(#" 1O<*%"%#"(46*(K
46O%"(" ['&O ,!O/%-%#+8"/ "#!'$!+-"" $""+"
"+4&*8"O//!"&&"+"/%
' ?' >+, / ' 4'*."/3' +, / ' "(K
4O7/' "% -%O&' +, /
\' Q ' ' D#@[-@.O@&"!'E' ' ' 8/*/8+"
#1#,!-.O-"/2"
' # $ ' >+, ' "%' ' P
#C 9 ' D#@[-@.O@&*-'E' 91#,!-.O!("%!'#,!-@
.O!(' -& #,!-.O!%' /*1(#,!-.O&*/(' .*!(#,!-.O&"<'
-&(",!-.O&"/%5 91#,!-.O&O-(591#,!-.O&!(591#,!-.O!@
#'O-5 91#,!-.O!#'O-(5 ",!-.O!:' ,!1-& #,!-.O-&&"'
#,!-.O&*/(#,!-.O&"<5 ,!" 91#,!-.O-&&"' ,!" /*!(
#,!-.O&-*/(5 ,!" 91#,!-.O$!(("5 #,!-.O&O/%5 #,!-.O@
& '*'/' d %'"#" +#+" 4'-:'#" +#+" .O&"!'
/" */2" #1*"' #,!-.O!% [' ,!-/<" */2" #1O'7"/%
I' O" ":%"/(-*/'(#%"' ['4"O'4'#('&O +#+" 26*("
,!"' "%%" '#4*/("O!'O-%#,!-.O&;' ['!/' "$!("NN'
("2*-Q07!"O."2 1O!:-&-O-'" / O/(&"&O/7O7"
.!&7O-'"*/'$O-%,!"&,!"$*-(#,!%%O&*-"O2%-$52"%%"
26*("#,!-.O!%"&&" O!%'"5 1"(% !/" 7'*(("$O!%"'
1 2O##+-" #-%,!1-& (" 2#/9!7!" 2*++" /
4O" 2*/(",!"% -& /" (!-% 4O(&"(-"'#7!&O'-%#((#"
/
' # $ ' >+, ' "%/
$-HQ ' ' D#@[!-@.O&@.1$!-'4'*/*/"#2*++"
#O/(6!-&"E' 6 "'+" #16-(%*-' /O%!'"&&"' */%
&"(.O&."(("(*/% #7O&"(
O # $ ' >+, '1'!1 #
%'#C 9 ' D#@[-@.*@[O@(-*/E' ' ' 2%-*/'
#1#,!-.*,!"'
' O I'(O" ",!-.*2O%-*/' U6*+*/8+"J
"/'O44"&&"' 2&"$'!/' +"+;'" ,!-"(% O!'2*& #!!/"
;"(%"' "% O44"&&"' "/'2&"$2" [',!*8' "/'$"'+"&"(
6!-(' 9 ' ,
O P>$>+, / +, /1 D' +, / ' S
" ' +, / * * -%O&' +, / 7
#C 9 C ' D#@[-@.*@[1E' 6'N$&I'Q!-'4"!%(1-/@
%"'4'#%"'"/'#-$$#"/%(("/(' (1O44&-,!"[#-$$#"/%"('
26*("(' /' %"'+" #,!-.*,!"' "&O"(%#,!-.*,!"'
*!(/1O."<4O(4'-(7O'7"' [' 2"'"/(#!-%"+;-O"
$O-% ,!"/' .*!(%$-O%O/%-& ("+;!"'(1!&-& ("+;-"'
' # ' .'(("'#" +*%(",!-.*,!"((O/(
&"(":4&-,!"' "%(-" O 3 ' "%' "+ "(%#,!-@
.*,!"' -&&"$O!%#2&&O-'" 2-'"' & ' UQ!-J 11/'
(*/7"#,!-.*,!"' /".*8#4O'&"(#-"!:' -O#!/"'2-@
4&!((" O.-(+8(%-'-"/:' 2' - 9 O ' -
' " #" +"%#"+"%%'"!'#%'"(!" ,!*-' /'4" 1!%4"'"#9!7"'
+"/%(#-"'(" "(%"O2"(#,!-.*,!"' /" " ":4"'-"/2"
#,!-.*,!"' -&O+O26-/"-#"/+*%!'#"2*/-(%"#"*'2"/'
"(%'"2!%"#&"'-O%#(' '/%7"'-(#,!-.*,!"'/"(&@
2-&"("%"/"#"(;"O!%"'(#2*/%#%!-(+*!'#%#!@

#"(4'*$"(("((-*/(#,!-.*,!"' "&O#!/"/+*%!'#"
%"+4(' [' "!:#"/"'*!%"(/"' +*%(,!-#-/@
."/%#"/' 2*/2&"!'#!/"' ' *-' -+%#&
#!-.*,!"'#"(#'#"(-/-+*!'#"//"/+*%!'#"
/*/ -& 4&!(7O'#%"/"-/"/%#"("' '"@
'&@ "'+"(+-%-&-%"&&"'*/#-$"/#!'

40/*-ʾ %'*4 2*!'% -ʾ 1*'"-&&'" "% 080/% '"/$*'2 ʾ40"
1 ʾʾ %8+*&*7-" ,!" -"< 044'*!." ʾ *!<M 8 g-%
!0//*'-20-/ʾ ʾ '0;&"5 +0-(&"($*'+"(#"(40K
%*-($0.*'-("/% &0 #"'-.0%-*/ &0%-/"
% ʾ DM@'0@;-"E ʾ ʾ 0'- % ʾ#!*'+" 2!&@
&-."" "/ ʾ &0/#'"
ʾ$- ?ʾ -+-/!%-$ 1
%$- ʾ D"@'0@#-@[0@%-$ʾ %-@.1E ʾ 6
$"'+"#-#02%-,!"ʾ !-##%'!-%!/" 26*("40"&0 '02-!"
ʾ$- ?ʾ *8ʾ$-
" ʾD"@'0@#-@[0@(-*/Eʾ ʾ 2%-*/ #"
##'02-/"'ʾ #!"<%-'4"'ʾ U0 -7ʾ ,!- #%0-% &"!"
2'-+" "/ '0/2" U#"('"&-7-"!("(#" *'%@ *80&J
#-7/" #!#'0#-20%-*/ "% #"(#"'/-#"(4"-/"(4"'(*/@
/"&&"(ʾ 40'!%$*'% -//*2"/% [*+"ʾ ! 'Jca'3D
ʾ$- ?ʾ 0%ʾ * ʾ #" ʾ 0'@
-$ '026"'ʾ #" "ʾ 6*'(ʾ 7ʾ '02-/"
#?0M+#ʾ # ʾ D#@'0@$&"ʾ $&["E" 40'%ʾ " ʾ ʾ "!%
&0 0*!" #'0&&"'" 40" !/" ;0&&"
% # ʾ DM@'0@$&"@+0/E 0 +ʾ "'+"
#!0'% +-&-%0-'"ʾ %0%#!!/" 4-[2" #" 20/*/ #*/% 1[+"
ʾ "(% "'0&&#"
ʾ D#@'0@$&"E" "ʾ ʾ N F 2*'26"" #7#'"@
+"/%ʾ "$&&"!'"" &04"0!ʾ " 2*!4 #!#4#" &!-0 #'0&&#
&0 4"0!ʾ N ʾ /&"."" !/" #&0 (!'$02" -/%#@
'-"!'"#" 1#+" #!!/ 20/*/ʾ "/ 40'&0/% #!!/ ;*!&"%
,!-(18 ;'-("
H ʾ :.ʾ (('0&&"'ʾ 9
ʾ$- ?ʾ ʾ 4*!" ʾ 4'#$-:"ʾ "% ʾ;*!'@
7!-7ʾ
ʾ D#@'0@$&!@'Eʾ ʾ ʾ N i #7"'" #2*'@
26!'"ʾ ʾ0 '"4! !/" #'0 !" [&0 +0-/ʾ N d "'+"
#!0'%(026!'" $0-%" #0/(&"(;*-(*!'"#(40" !/"
+0-/ -/60;-&"
ʾ$- ?ʾ>
#?0 ++#ʾ # ʾ D#@'[@&&#ʾ &#"ʾ $$ +*!-&&#"('"% /*/
M@'[@8#ʾ 8#"E" 40'%ʾ " ʾ N i /" #%*$$" #'0-&&#"
#%*$$" #*/% &"($-&((1#20'%"/%ʾ N i Q!-4'#("/%" !/
0(4"2% ("+;&0;&" [2"&!-#!!/" #%*$$" #'0-&&#" /
+!" #'0-&&# 40" &" (*&"-&ʾ -(07" #'0-&&#" "-/%
#'0-&&#" "0!ʾ #'0-&&#"ʾ N .*-ʾ 1*"-& #'0-&&#" 0.*-" #"(
$-&"%('*!7"(#0/(1*"-&ʾ*!'&" (40!4-#"('"/."" (#"(
-"/ /" &" '";!%0ʾ /-(0 .!" #'0-&&#" ʾ # '7ʾ
?+" 0/026" #%0-% !/" 4"%-%" "% $*'% .-"-&&" 2'#0%!'"
0." #"(&-44"('"% #"(8"!:'#'0-&&#(! ʾ I ʾ B
"'+" #" +0'-/"ʾ *'#07"(#'0-&&#"(24'#07"
ʾ###-*'#(
? ʾ D#@'[@ "@+0/ʾ +*!-&&#"("%/*/
#@'-@8"@+04E Pʾ ʾ N i 2%-*/ #!#'0-&&"'ʾ N d "/@
."'("+"/%#" &0 40!4-#" -/$#'-"!'", !-1"+4 26"#"
G" '#!/-" [&0 40!4-#"(!4#'-"!'"4*!" 2*!.'-" 1*"-&
ʾ 0 !(ʾ ʾ (!'.-"/% -/$&0+ +0%-*/ʾ "% ,!"&@
,!"($*-(&-44-%!#" *!2;0((-" "% "/$-/" "0-&&" +"/%
#"(8"!:ʾ $-ʾ :.ʾ %0
ʾ$- ?ʾ
#? D#@'[@&&#ʾ ʾ +*!-&&#"("%/*/#@'[@8#E
!ʾ ʾ i "&[*6"'"(#40'"ʾ "/ 40'&0/% #!" %-((!'#"(
#%*$$"('0-&&"" #!ʾ (0%-/ʾ N i 1#'0-&&"'ʾ Xʾ 6
ʾ "/-"#'0-&&# 0 (*-" "(% (!9"%%" [(#'0- "'ʾ "(
8"!:, !-(1#%0-"/% #'0-&&#(
ʾ :.-i (2%'*4-*/ ʾ 2"-& "'0-&&#" ,!0/# &0
40!4-"'"-!$"'-"!'" 40"2-20%-2"ʾ*!'0!%'" *220(-*/
(" '"/."'(" "% /"4"/%2*!.'-"(*/ &0/2ʾ #" :. ʾR
ʾ$- ?ʾ> ʾ(#-% #0/(&" g0&&*/ ,!"
/%-'" #" '#%ʾ 0''026"'5 "(% &0 $'+" g0&&*/"
2*'"(4*/#0/% [10/2-"/ $'0/40-(,!-"(%
#"+"!'# #0/(* ʾ "% ,!-."/% #! &0%-/ʾ '0@
* ʾ +0-(2"%%" #%8+*&*7-" /" 4"/% 2*/."/-" #"(
&0$*'+"$'0/,0-("'40'2" ,!" "/" '"/#40("+4%"
#" ʾ "% #" &0 #-(40'-%-*/ ʾ 26"&" &0 %-"
#!!/ %84" &0%-/ ʾ ʾ ##'-.# #" ʾ +0-(
-&$0!% 4&!%#% 8 .*-" !/ 2*+4*(# #" ʾ "% #!! &0%-/
ʾ '02&*-'
ʾ $#@'[@&&!@'1ʾ && +*!-&&#"("% /*/
#@'[@8!@'1Eʾ ʾ ʾ ?0',!",!-'"(%"H!/" #%*$$",!0/#
"&&"(#'0-&&#"
ʾ$- ?ʾ
$$- ? ʾ& D#@'0@(+--/ʾ (+-#@/1E ʾ 6
"'+" #" 46-&*&*7-"ʾ '*/*/2-0%-*/ #'0(+-"/'"(
4'*/*/2-0%-*/ #! 7'"2 #0/(&0,!"&&" ʾ 4'*/*/2"
1#%0 2*++0 !/ " *!."'% &" %6#%0 2*++0 !/ %ʾ
&" #"&%0 2*++" !/ #ʾ !4(-&*/ 2*++" !/ !ʾ 26-
2*++" !/) ʾ "% #0/(26",!"#-46%6*/7!"ʾ &"(
#"!:.*8"&&"(,!-&0 2*+4*("/%ʾ 4'*/*/2-0%-*/ ,!"
/ (!-% #0/(/(&82#"(40" *44*(-%-*/ [&0 4'*@
/*/2-0%-*;ʾ '"!26&-/-"//"ʾ ,!-"(% 1044&-20%-*/ 0!
7'"2 0/2-"/ #" &0 4'*/*/2-0%-*/ 7'"2 +*#"'/(
ʾ$- ?ʾ ʾ #'!#-%#!ʾ:.-(-#2&"
\ ? ʾ D#@'0@(%-@0@/-@(+1Eʾ (+ʾ *2K
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% ʾ D#@'0@(%--/Eʾ (+ʾ "2%0-'" 0/7&0-(
,!- /-0-% ,!" 1 7&-(" 0/7&-20/" " % &" 4*!.*-"
#!*:(*++!/-"'

ʾ$- ?ʾ 9 ʾ ʾ 26"$ #" 2"%%" ("2%(
#0/(&" :./!(-#2&"ʾ I
#?0&#ʾ# ʾ0##'0@##'%##"E ʾ " ʾ" /ʾ *6-"/
#'0%#'N -7ʾ"%'$0+-&-#'"+"/%' -'"ʾ2*!'-''2*++"
!/'#'0%#''-'"';"0!2*!4'2*!'-'%'#(;-"/ '(0/('4*-/%
#"'2#%#'2*++"'(-'*/',!0.-%'40('#"'0%"'D.*8'/#/ $-E
ʾ D#@'0@%#Eʾ /ʾ ʾ M%"'ʾ &0 '0%"'ʾ N -7ʾ "%
$0+-&-#'"+"/%ʾ (1#'0%"'ʾ / ʾ 1"((*!$&&"" [$*'2"
#" 2*!'-'
ʾ$- ?ʾ ʾ 4*!" ʾ 4'#$-:"ʾ "%'*%"
% # ʾ D#@'0@%*E Pʾ ʾ "'+" #!ʾ 4*&8%6#-(+"
7'"2ʾ 0 +!(" ,!-4'#(-#" [&0 4*#(-" %"/#'" "%
0+*!'"!("
ʾ$- ?ʾ 1 40 %7^ #" "8 ʾ #%'" 0+*!'"!:
b$ ʾ D#@'#@-#Eʾ 3ʾ ʾ " 2*/9!7!" 2*++"
408"'ʾ "'+" '!'0&ʾ 0;*!'"ʾ "/ $0-(06% ."'("" &0
%'0/26" "/ #"6*'(#" +0/-#'" ['$*'+"" !/" '-7*&"
0!'2"/%'" #" &0 4&0/26" *!ʾ ;-&&*/
ʾ$- ?ʾ ʾ 4*!" ʾ 4'#$-:"ʾ "%
b0 ʾ DM'@;!"E (ʾ */#0/% 0'7%&"!:ʾ ,!!*/
0%*!%" 0!ʾ +-/"'0-#" $" "% #0/(&"(60!%($*!'/"0!:ʾ
/ %*!.'0!((-0'0;!"
ʾ D#@'1E ʾ ʾ ʾ I "'+" #" 26"'*/*&*7-"ʾ
4*,!" $-:" #!*$-ʾ 1*/ 2*++"/2" [2*+4%"'(0/@
/#"("(% ;*/ #" '"+0!'" ,!"ʾ +*% #!#"((-@
7/-$-" ##/*+;'"+"/% #!0//#"(2*++"/2# [!/
2"'%0-/ 4*-/% ,!" ,!"&,!" 7'0/# #.#/"+"/% $0-%
'"+0!'"
ʾ A N "*#"(&8+4-0#" 0/"
7'"2 !" 2*++"/2"/% 0!" (*&-%-2" ##!#% #4 0 AAM
0.0/%S ʾ N '"#"&0 $*/#0%-*/ #"#"' *+"'2*++"/@
,0/% 0! ʾ 0.'-& AMY 0.0/% S ʾ N '"#" 0;*/0(@
(0'"*!ʾ #"(0;&*/-"/#" #'"$*'%"+4&*8#" 40" &"(
0(%'*/*+"(7'"2(,!-2*++"/,0-%" M $#.'-"" A A
0.0/%S ʾ N '"#!&":0/#'" &" '0/#" *!'#" #"
6-&-44"ʾ *!'#'" #"(07-#"(*!' #! #"(("ʾ
2*++"/,0/% &" ʾ/*."+;'" Y ʾ 0.0/% Sʾ ʾ
0."2 &" '#7/" #" 6-&-44" '-##"V$'#'" "% 4'#@
%"/#!"(!22"((""! #! &":H#'"ʾ '"#"(#-"!2-#"(
!'(8'@+02##*/-"//"ʾ *!' #1 40+#"ʾ 2*++"/40/%
[&0 4'-(" #" 0;&*/"40" #&"!2!(-20/*'ʾ #0/(
2!(J [0;&*/"04'#(!/" .-2%*-'" #" .&/% !/" #"
2*++!/" [4"(,!" %*!%"(&"(/0%-*/"(1 (-"5
21"(%2" ,!!*/ /*++" 1#'" #"(#&"!"-#"(2*-+-
'--ʾ ʾ D0 '"9!&-"//" #"9!ʾ #%0;-2
40"S!&"(@ #(0'2*++"/40/% &" ! S0/.-" R 0.0/%
#ʾ "% #*/% 10//#" "(10//#"9!&-"//" N
#1 (407/" *!' #" #"((407/*&(D, !-$!% 0;*&-"
."'(YM E 2*++"/40-% "/.-'*/ YB 0/(0 0/% Sʾ
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2;'#%-"//"" #" !&70-"ʾ #" #" 1-/20+0@
%-*/ 4*-/% #" ##40%4'#4*(#0!ʾ .-!' (-#2%" 40" "K
/8(&" "%-% 0#*4%#" "/ '0/2" (*!("4-/ %
60'&"+07/" #!04'#(&",!"& &"(+*#"'/"((!44!@
%"/%(*-%0.0/%(*-%04'#(N '"#-*2&#%-"//"'//" #"
,!-#0%"#" B 0."2 &" '#7/" #" -*2&#%-"/ +0-(
,!-#-%" #" #"(+0'%8'(/" 2*++"/2" ,!!"/' Y
#4*,!" #" &0 #-:-#+" 4"'(#2!%-*/ "*/%" &"(26'#@
%-"/(&0 BI [//#" #!'#7/" #" -*2&#%-"/ N
#"('+#/-"/(#'" -/(%-%!#" 40" 1 7&-(" 0'+#@
/-"/" &"'(#" (0 2*/#"+/0%-*/" 40" &" 2*/2-&" #"
60&2##*-/" "% 2*++"640/% &" 9!-&&"% RY ʾ 04'#(
S ʾ "#" 16#7-"ʾ #" #"(+!(!&+0/(2*+@
+"/40/% [&0 $!-%" #" ?06*+"% [?##-/"ʾ &" 'M*!
M9!-&9"% M ʾ 04'#(S ʾ N '#4!;&-20-/"ʾ #"#!
#%0;&-" "/ '0/2" [4['%-" #! ʾ ("9?"+;'" AM ʾ
&"9*!" #" $*/#0%-*/ #"'&0 '#4!: ,!" "% (!44'-@
+#" [40'%-" #! 90$-.-" B M N I 0(!-%"+#++"
#"(0//#"(,!" */ 2*++4%" #"4!-(!/ 4*-/% $-:"
(#.#/"+"/%(,!- (" ("/% 022*+4&-(#!'0/% !"
'#4!;&-20-/" N YF 0" ":%"/(-*/ #4*,!" '"+0'@
,!0;&" *!."'% #!!/ /*!.-&&" #'" 26"'*/*&*7-,!"
1#'" #" 2'-(0#" 1#'" #'!(2*++"/2"
"(#'*-%(&(#" 16*++"-2ʾ 1#'" $#2*/#'" *!. "%
#!7&*; '" 022*+4&-'0 &" %*!'" -/*ʾ 6,
ʾ$- ?ʾ 0%ʾ '/*+; '" 26-$$'" #!*-& #4*K
,!"5 40'0&% #%'" 4'-+-%-."+"/% #4&!'-"P*'#"
ʾ 21-.'"ʾ4'*4'"+"/% +*'2"0!:#"21-.'"ʾ
4-#*"(#!*$-ʾ /*+;
) #'D#@'#@ Eʾ ʾ ʾ "'+" #" +8%6*&*7-"ʾ 0
40'%-"&0 4&!(*;(2!'"-%#'1"/$"'5 1"/$"'+#+"ʾ "(
+*/(%'"(#" 1#'#;"ʾ "#0*"("/7"/#'0 1#'#;"'"%&0
/!-%ʾ ? C" ʾ ʾ ʾ : *5
ʾ$- ?ʾ1 4"$-*2ʾ *;(2!'-%#'%#/#;'"(
ʾ D#@'#@[%-"!'Eʾ 6ʾ ʾ "'+" #!0/0%*@
+-"'?!(2&"(#'"2%"!'(*!ʾ (-%"/%&"(#"'2@
%"!'(ʾ+!(2&"("(!.'"/%"%#!!"("((""2"%%#/(*'70/"(
ʾ$- ?ʾ *8ʾ#
% # ʾ D#@'#@[%-@&1E *#9ʾ "'+" #!0/0%*+-"'
!(2"4%-;&" #!#'"2%-*/ʾ -(('#'"2% "%-((!' ,!- #"@
."/% '*-#!ʾ#!!'ʾ 7*/$&#" 40" 10$$&!: #!ʾ (0/7 #0/(
("(.0-(("0!:
ʾ$- ?ʾ *8ʾ$-(2'-*

%ʾ / $-ʾD#@'#@[%-@&-@%#Eʾ (ʾ ʾ "'+" #!0/0K
%*+-"ʾ Q!0&-%# #!ʾ%-((!' #'"2%-&"ʾ
ʾ$- ?ʾ *
ʾ DM@'#@[(&*/5 "/ ."'(#" ,!0%'" (8&@
&0;"(Eʾ ʾ ʾ ʾ d 2%-*/ ##'-7"'!/ʾ +*/!+"/%ʾ "@
'"2%&*/ #!!/" (%0%!"ʾ #!!/ %"+4&"ʾ N L -7ʾ /(%-K
%!%-*/ʾ #%0;-(("(""+"/%ʾ 1#'"2%-*/ʾ #!!/ %'-;!/0&&ʾ
1#'"2%-*/ #!!/" #!26#ʾ "4!-(1#'"2%-*/
#"(7'0/#("$-"$(ʾ&"("'*-/1"!'"/% 4&!(2*++"910-
#-%ʾ #"(">."'*-8#(#0/(&"(4'*.-/2"(4*!'" $0-'"'" *;K
(""." #"(&*-(#++0/#"(#!:5 0-/(-" (*!'!&0 (*/%'*-&"@
(-#+"/%"('02"" *!ʾ /!"'/"/#-#-% 4&!(0;(*&!"(+"/%@
&0-'"(ʾ ʾ c ʾ "ʾ ::.+ʾ) ʾ N YF "'+" #"
468(-*&*7-"ʾ 2%-*/ 40" &0,!"&&" 2"'%0-/"(40'%-"(
+* "(("'#"(("/%
ʾ+(ʾ0 ! ("(+!(2&"(ʾ$"'+"/% "/ #"!" (-K
%!0%-*/ "% #"%*!'"/% *'"+"+" ;*!26"ʾ #ʾ ʾY
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ʾD.*8ʾ # 8@
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(*++##"2*!4('N 0'":%"/(-*/ʾ%'#(@$0%-7!#'S"(!-(
#'"-/%#ʾ " #.'-"'%*!%#'"-/%#,!1-&#%0-%ʾ (. YYB
%ʾ ? ʾ D#@'-/@%"@+0/Eʾ (+ʾ #*&*@
7-(+"ʾ 2%-*/ #!#'"-/%"'//ʾ"!'!/02%"!'"%2
ʾD#@'-/@&#Eʾ*ʾ ʾ N i *+4'"ʾ*!'$*!&"
&"(1"-/(ʾ "%ʾ 40" :%"/(-*/ʾ;0%%'"'*("'ʾ / 10
#'"-/%#ʾ N d 0+-&-#'"+"/%ʾ ":"##"'" #" $0%-7!"ʾ ʾ
#'"-/%"%*/(ʾ (("("+4&*8#(N YI -7ʾ 0-'" 4"#'"&"
'"##-%ʾ &0 '#4!0%-*/*/ʾ"%2 ?*/%9"!'0.0-&ʾ &0 4'*%"2K
%-*/ #" ?ʾ *!,!"% ʾ &0 26!'" #" ?ʾ *!,!"% 1#@
'"-/%*ʾ @(-?ʾ ʾ Y ʾ "260/2"&-"'"#" '"!/"ʾ
0."2 ?+" #" ?0-/%"/*/ ,!- 4"!ʾ 0."2 *!
9#(!-%"(1#'"-/%#"/% 0!4'#(#!'*-ʾ/ ʾ ʾ ʾ Mʾ
ʾ '"-/%"" ,!"&,!!/ʾ;-ʾ &" +0%-'0-"0:2"((-*+"/%@
#0/(!/" $"!-&&"" 4!;-,!"ʾ #0/(!/ 2*++"/%
ʾ "+" #" (2!4!&"!("0$$0-'"(#!'"ʾ*#*%*!(
"+" #" (2!4!&"!(#$0-'"(#0;0/#*//""
!/" #%!#" #"/(" -/%-+"($0-(0/% 40'%-" #!/
!"/(0;&" #!"(#" %*!7&*-/2"(#" '0/7"(ʾ !-1"@
'"-/%#(#%0/%ʾ%"% '#4*!"ʾ ʾ *#$0%-7!'" 4&!(ʾ&@
(-7'0/#" 40'%-"ʾ ,!"ʾ $0%-7!#(1!/" 4'*$*/#" ,!"
(-7'0/#" ʾ &0 ("/(0%-*/ #!'#"&"(40'0-/"(2-"(
,!-6*+&"(1#'"-/%#" 0!:2*/(#,!"/2"(ʾ ;-&& 1!/"2(
!/"!'*44"ʾ 1#'"-/%"+"/%ʾ ;-&&
"(9*!'/(ʾ ʾ (*(4$#%*&-2"0 /-%'(4#'(6"'#"!*@
ʾ (! 40"/2*-/%(4&!(0!%'"(ʾ%'#"(
20(#"(("/#'&/*/ 4&!(.0'-#"(*!+*" 0!2!/"("(0%2"
&"/ 60'/"+"/%(! 0/#'"-/% #"+*/%(2-%"(ʾ 4'#(
0'/ 60'/"+"/% ! ! #'!/" ;'"$*/#0&"/%" ,!"&,!!/" 6-(
BRA
ʾ$- ?ʾ 4*!" (4'#$-:"ʾ "% ;*!'7!-7ʾ
ʾ ʾ 4ʾ 0
$*'+" 0/2-"//" ,!-' "(% 0!((-ʾ 2"&&" #"(40K
%-(ʾ "(% 4&!(2*/*/$*'+"" [1#%8+*&*7-"5 -"/"/ "$$"%
#0/(2" #"% "+9!/(-*/ #"('"+"#"
$ # # H&#6? D#@'-/@%"!'E(ʾ "&!-,!-#'"-/%"ʾ
+0&0'0-%"-%' :2"((-."+"/% #0/(!/ !/#-(2*"*!ʾ *! (!ʾ
#0/(!/ #2-'0/0&0/*$0-("(("(4&!(ʾ
"0!:'9*!'' "/2!&&%#ʾ S0+0-(?ʾ "!-&&&"%ʾ #0/(("(4&!(
"%0/('/"*/ &0 '" 0/2"(;-&&ʾ #0/(!/ 2*+4&-2
(0/7&0/%"2"ʾ/"4&$*'+"(1 "! &" %"/#!((*2&-(*/
? ʾ? - ʾ < /, ʾ ʾ % ʾ :. ʾ 4ʾ
%ʾ ? ʾ D#@'#@+0@[#<-"Eʾ (ʾ "'+"
#"26%+-"ʾ :8#0%-*/"40"#"7'#(##2*+4(-%-*/ ,!-
0 4*!'20!(0%-%-*/" 2 "!-+" 6!+-#-" #" (!'2"%'0-/"(
40'%-"(2*/%'"'!(#0/(#0/(2*+*/%-*/+0'-/"'
ʾ$- ?ʾ 1 4(T-04"![4"!"%:P D -22*+;/(%-*/
#% & T># D#@'#@+-@%-@[1Eʾ 6ʾ 1"'+-%"ʾ 0
.-"'#'#+-%-,!"ʾ&0 "(&#"ʾ 40" *44*(-%-*/[&0@.-
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ʾ$- ?ʾ *8ʾ ?
$ʾ# ?# ,H&ʾ D#@'#@+*/Eʾ ʾ -'$*'2"0!#";*-(
,!-"(% "/26[((#(!" 10.0/%@%'0-/ #!!/ 20'*((" %
,!-."/% "+;'0((0!:"%-+*/
#?#8 .# ʾ 2ʾ ʾ D#@'#@<-@4#@&0@%"$-ʾ
$"%&@1Eʾ 6 ʾ *8ʾ$- -4 ʾ "(+##"*-/(
044#&[-"/% (0+0&0#-"!/"#;%%&&%%-*/ #"#(-4#0%-*/("5
&"(2*!%-0/(0/(#-(0-"/% ,!" *1#%0-% &0 '*!7"*&"ʾ ʾ !
ʾ& A ʾ M /*.ʾ MB
#?#8 .# ʾ D#@'#@<-@4#@ Eʾ (ʾ '*/*/2-0%-*/
!&70&'" "% .-2-"'!(" #!ʾ+*%#'8(-4##&"'" 1 20##+-"
0#*4%"5 +0-(2'" +"% /1"(% 40('%"&&" +"/% "/%'#0/(
!!(07"ʾ 2*++"'!'"ʾ /" 4!-(("/%" ,!"&&" 0!&0
4'"%-*/2-0%-*/%"(%'04;"&ʾ *8ʾ$-/'(-
ʾ D#@'#@%-@(+1Eʾ ʾ N i "'+" #"
468(-*&*7-"ʾ %0%#!"'-%0%-*/2"2%-0*/("(%-0&&%%#-2+-"*%
%-*/"#"(46#/*+#/"(0/0!&#0!:0/ ,!'*70/-0"(N i -7ʾ
-*&"/2"(40'"!/"40'("((""*/'0(60 4&!("("0%#0"&7"#
ʾ $- ?ʾ 1 4(M%G/-#P #" $" # U /ʾ -'-%"ʾ #"
&4%G ʾ ,!"'&&"'ʾ U /ʾ ,!'""&&"' #++" ,!"
: U /'$! ʾ4$-(-.) &"&0%-/ 7ʾD *8ʾ8 1 @
%ʾ ʾ D#'@70@(%/@1E *!ʾ
D#'@70@(%!@&*+1E(ʾ "'+" #!0/%-,-&-%#"*+0-/"'
-(*/*!/!-+%'" &" ("(20."("2*+4&-,-#"!2%" #" %'0.0!:
4#/-;&"(
?ʾ 0%ʾ , ʾ 4'-(*/*!" *$- 1*/ %'0@
.0-&&"'ʾ #" -48-:!5*4D Pʾ %'0.0-&&"'ʾ #" -48*.ʾ*"!."

[illegible]

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!

'$- ?' *'+" O&%M' " G-!O'*% P"" *!'
< ' -' 2*++" &" 4*!." !6-(%*'-,!"5
O-/(-#-%" 40'"(,!" !H'-7*" O 2*++" #"" 40%%"(
#!O'O-7/H"' !'
$$- & D$-@'-@7*@/!E' ' "'+" #!O(%$*/H-"'
O 2*/(%"&&O%-*/' #" &O -"'7"' I
'$- ?' /*+' #" !O+O/%"#" O226!(
"% !/' #"(/*+(,!" &"(O/-"/(' **% #*/!O( )' &O
-"'7"' H
$-' # DM@'-@/O@(M' (M"E' A' "'+" #"
:**&*7-"' Q!-' '"(("+;&")' !/' 6"'&((*/' '
'$- ?' O%' '*!' , 6$-'-((*/
'*8' H' V
$'# ## DM@'-@/#"E' ' "'+" #" ;*%O/-,!"
V 60+4-7/*/' 40'O(-%" /!-(-6&" 6 &O .-7/"
$' DM@'-@//-"E' *!' DM@'-@//-(!E'
('$X "'+" #!' 4*&8%6H-(+" 7'"2' *+' #"($!'-"(
'$- ?'1 4-..!3 O/(2'-%' @=' " 7'"2 "%
&" O/(2'-% (-7/-$&"/% 2"&&" ,!-' (" 6?"' (" 4' 2-@
4-%"' 1"(%"'-7-/O-'"+"/%' #O/(&O +8%6*&*7-" 7'"2@
' ,!" !' !/' /*+' #" 8 ,!O/#' 260/7"("/'20@
.O&"' "&&" "!%' #!' 26".O& 8 "% &"
46".O& /*/' "' +M+"' #O/(1 /#"' # 4&
(" 260/7" "/' 20.O&" 4*!" -26044"' [(*/'#4*!:
%' $%& (-7/-$-" &O-/"!<' ."&!' "% ."/% #"
4%*.' %*-(*/
'# ,7O+ 7#' D#@'-@*@[O@&-@(M' ("E' A'
"'+" #" ;*%O/-,!,' Q!-' O &"' 20&-2" ."&!
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'$- ?' "% !O49%MG' $'!-%
D %' D"@'-@*@[#@ E' A' "'+(#" ;*%OK
/-<"' Q!-' O &O %-7"' ."-!"
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5 #) ,7# DM@'-@*@("@$O@'E' A' "'+"
#!6-(%*-'" /O%!'"&&"' Q!-' O &O % %" ."&!"
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%' # ,%# D"@'-@*@+;@%'!E' (' "'+" #"
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#"($-;'"(&H(4&!(##&-""(
'$- ?' "% +"(!'"
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;*%O/-,!"' Q!-O &"(4;%O&"(."&!(
'$- ?' "% "
%' # ,./,?# D"@'-@*@$*@'!E' A' "'+" #" ;*%O@
/$,!"' Q!-' "(% 260'7" #" 4*-&(&O-/"!:
'$- ?' ' ' ,!-' 4*'%"'
-& & D"@'-@*@$-@ E' *#5' "'+" #" ;*@
%O6-,!"' Q!-O &"($"!-&&"(."&!"
'$- ?- /* "% 4#OO*.' $"!-&&"' ll
%' D"@'-@*@4*@#!E' A' "'+" #!6-(%*-'"
/O%!'"&&"' Q!-' O &"(40%%"(*!' &"(4"#-2!&"(."&!(
'$- ?' "% -%*;3' 4-"#
%' D"@'-@*@4% @'!E' A' "'+" #" :**K
&*7-"' Q!-' O &"(O-&"(."&!"(
V@' $- ?' ' 4*.' O-&"'
$9 ? D"@'-@*@(4M'@+!E' A' "'+" #*
;*%O/-,!"' Q!H O &"(7'O-/"(."&!"(
'$- ?' "% *-%"440' 7'O-/"
$' D#@'-@*@(%#@+*@/!E' A' "'+"
;*%O/-,!"' Q!-' O &"(#%O+-/"(."&!"(
!' $- ?' -&O+"/%
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%*'" /O%!'"&&"' Q!-' O &O ;*!26"*!' 1*!."'%!" ."&!"
'$- ?' "% G'2#40' ;,!"6"
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/-,!"' Q!-' O &"' (%8&" ."&!
'$- ?' "% @
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Q!-' H440'%-"/% [&O 2*/%'*."'(" 2'-% #'-(%-,!"'
$N#' ' 1#'-(%-,!"' !O'% #" &O 2*/%'*."'("
'$- ?'1 4-R -:*P#" 4-3',!"'"&&" 2*/%'*."'("'
% %' ? $-' D#'@+O@ #' +*!-&&#"(E'
"&!-' ,!-' $O-% &"' $'*+07" $#" "!8#"J',!" 1*/' 04@
4;&&" "'+O-&&#' "% ,!-' "(% 2*++" &" 26"$ #!' 26O&"%'
@ 8 ' +(%' AMA' "N ((*@
% 8 2-O%-*/' [' '!8#"' #" 4'*4'-#%O-!"(#" %'*!4"O!:
,!-' +"%%"/% &"!"' &O-%O7" "/' 2*++!/' 4*!" &O $O;'&@
20 */' #"($'*+07"('N /' #-%O!((-'"'+O-&&-
%' ? D#'@+!E' +' "'O-/(.07!"(
D '$-+"E
'$- ?' '*."/3' "'+"5 "(407/' @ -%O&'
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N:*' ##("%
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1"/%'#" "% &O (*'%-" #"(+O'#60/#-("(#O/(&"(
#2-"&&"(#!' ".O/%
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(4#"" #" 6026" ['%'O/26"/% &!/O-'" 2*/.":" 4*!"
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' ' ' 40'2" ,!!*/' O 2*+40'" &O
40'%-" '"2*!' ;#" #" B '0/'+!("O!' #" 1%"'@
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O' O;-%O%-*/' #!!/' "'+-%"' "N G ' ("#-% ,!"&,!"@
$*-('40" O;!(' 4*!" 2*!."/%#!"'+-%"(!' 8'O.O-& O!K
%'"$*-(!/' "'+-%07"O!+*/% O #'-"/4 #(#" O'-('
! $&* N BI -7' -"!' #2O'%#' (*&-%O-'"
1"(%!/' .#'-%O;&" "'+-%07"' NN O" ":%"/(-4/' 4"%-%"
+O-(*/' #" 2O+407/" (-+4&" "N +*#"(%"' ."/"<
+" .*-" #O/(+*/' "'+-%H"H' *!(/*' 2*//O-(("<
40(&"(+*!&-/(' 1"'+-&O7"' ";!' L'
,7' > " /' N d -/' #"&1 "'@
+-&O7"' .-/' #!!/' 2'!' $O+"!:' #O/(&" O!46-/#'
/' O!."'/O% $!+"!:' ,!-' +#-# #"&-7/O7"' "."/@
#O-% 2;"< '"/"& 4*!" .-/' #" '+-%O7"'
' '
' :-!' (' 2*++"/,O 40' 7'O/% "(%!#"
"/%"/#'" #-&-7" +*+"/% [4-%"!("("&"(,!":
&- ;"'+-%O-7"(U.-" #!"'+-%"J O.*-% "/("-7/-' = D
' ' 2 2-%# #O/(' ' /
O.'-& -BM '4' "#"/< &O &O/#" "/< "& ;*(207"
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O !(?*/' 2!"!" "(%#"."/' !' 6"'+-%" /' 1"'+-@
%O-7" #" "/(#"' "G ' '
'$- ?' > 4'*."/3' "%
' -%O&' !O/2-"//" &O/7!" #-(O-%
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? '*!' ? D#'@+&@$E' ('+'$N !' *&-K
%O-'" '"%-'# #O/(!/' &-"!' ##("%' *# -& ("&-.'" [#"a
":"'2-("(#" 4-#%#" "("'+&%"(#" &O 6#;O&#"
O+-&-#'"+"/%' -.'" 2*++" !/' "'+-%"' .-.'"
("!&' &*-/' #!' +*/#"' N [" 4&O-(O/%"-" 4[%#(#!"'K
+-%"' /*-< (#26"('NNYI' "'+(#" :**&*7-"' '!(%O2#
#!'7"/'" 407!"' 044"&#O!((-' "'/O'# 1"'+-%"' ,!-
(" &*7" #O/(&O 4'"+-#'" 2*,!- " !/-.O&." ,!-&
'"/2*/%"' N '*."";"' Q!O/# &" #-O;&" $!% ."!:
-& (" $-% "'+-%"' 1"(%@[@#-'" ,!%+' 8-"!:' 4#26"!"
("2*/."%-% O&*"(,!" 1[7" &!-' -!%"#-%&"(4&O-(O-'(
? ' ?+"#" #.-7/[O#-% 6("+-%"(("> "
2*/%" ' 2"%%" 6"'+-%"((" #*/% 91#%[-(260'+#"
YYB' 1"%6*7'046" 9!(%"D "'+-%"% "'+-%07"
"((O/(4!-(,!" # +*%7'"2 #*/% -%(."//"6% O
!/' "(4'-%D&*!:
' :+!'(' O' (-2!+'%"(;O;-(/*!(2*/%"'
!' ("+;&"("(%'# !/((O-/(6"'+-%"('< 6'-- Y'
-' O;-(/" $"% 40("'+-%"5 1!/(6*+' "/' 6"'+-K
%O7" O;-%" %' -& "/' O &"(#'O(."(%!(' /" 4'-(
U4'-("J +-" #"!:' $"(%!(*/' O;-% /" (O ."(%" '"'
= ' M' O !' ' 9"!/# 6"'+-%" .-"!:' #-OK
;&"' *$-'/*' ' > "'26' .!-' $d
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'$- ?' '*."/3' "(407/'
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4/7- =' #"&4/4%*3' ##("%
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"'+" #" ;*%O/-,!"' *+' .&HO-'" #!'20'!+' ;P-@
D*+:"& $#'"(E' "/' *'+O/#-"' #"
&O 'O-4*/(":" 4 ' ' ' 5
'$- ?' !O/7&O-(' /*-:' #" %"'"'#"
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#-O-O2%-,!"' /" 20(("'*&" #'*##" 40" &" ."%@#" @7'-(
$' # " D#@'*@##E' A' "'+,' #-#O2%-,!"'
=*/7"' !O'("/-2 #'*#" "(%*+O2
'O !(' "(#-%"(.%,^"!'(O", !-"'"/% !/"
O2'-+*/-,!-' "'*#" &"(4O'*-("% 2*(%#(#" &O 4&O-"
2p'E
'$- ?' O%' '#" "% '*/7"'
%' # D"@'*(!E' P' + ' "'+(#!' 4*&8%6#-(+"
7'"2' "#-"!' #" O+*!'
'$- ?' 40*P'1 +*!'
$' # ,8 M' D#@'*@<&$' <-@.!E' 6' Q!-' O &O
4'*4'-#%# #!#'*#"' "4"(-*/(U#O/(&O4&O-/" #" &O
O!%"@ #-'"J 40" *# &"(2*!'O/%([%*!%" 2'!" /*K
%O;&"' #".-"'//"% #'*-($("% %$*4 (*!."/% *!.'"/%
;'!(,!"+"/%#' /*!."O!:' &-%(' " #' &*
' ' '"/#!('%!' !--'4' B
'$- ?' *8'#
D#@'*@<-*/E' ' 2%-*/' "$$"%#!!/"
(!;(%O/2"' #'*(-." /'%'*!.O #O/(&" 4&" '%!;' -/%"(%-K
/O& #"(#'*(-*/(4&!(' *'!' +*-/(&"(#%"/#!"
' 'O ! (' "(O/" '-("+"' (" #$*/% 4O%O/ '!'J/
(%*+("'"% #-O4"#"("(' !'4&-%' *'!' !'*"(*/$
'=' (*
$- ?' O%' '#"
D.*8'$-O*' E
%' #?,&# & T6#' D#@'*@%#@+O@%-@[!E' 6' "'+"
#" 46-&*(*46-"' Q!-' "(%#/*/"# (*!(&O $*'+" -/%"'K
'*7O%-." 5 ,!-' 4'*"##" 40" -/%"'*7O%-*/' '7!K
+"/%' +#%6*#" #'*%#+O%-,!"
H'$- ?'1 42* =-4*' -/%"'*7O%-*/
%' D#@'*@%-@#-"E' (' ' ' "'+(#!O/@

%-,!-%#' 7'"2,!"' #%"("/' 6*//"!" #1 '*(*!' !!'
4-#*/
'$- ?' 4-*2' +*!'
Q D#@'*@%-@ E' 6' NN !' Q!-' O440'%-"/%'
, -("'044*'%" [O+*!' !.'07"'4*#+" #'*%-,!"
' "'+" #" +##"2-/"' #&-'" #'*%-,!"' ##&-'" 2O@
'O"%#'-(# 40" !/" 4'*4"/(-*/' (O/($'"-/' 44!" &"(
9*!-((O/2"(#" O+*!'!' NN F ' "(#'*%@
,!"(7'""(' &"(4* %"(7'"2(,!-' */%260/%# O+*!'
' "(#'* -4-"(O/2-"//"(4*#(-"('"&O%-."([OK
+*!' 6#*4;'O(%"' ,!- O.O-& #%# #-(2-4&"' #! '-(%*"'
"%' '-(%"%" &!-@+#+" O.O-"/%' #2'-% #"(#'*%-,!"(
2*++" &#O',!"' ' ' !' $!
4' #O/(M
' ? ' (" +"% %*!9*!'(O4'#(&" (!;(%O/%-$
,!O/# -&##(-7/" !/'7"/'" #" 2*++*(-%-*/ #/'*!K
."07" #" #'*%-,!"' ' 4"/#O/% O/2-"//" ' !' "!#"'"'K
%'" O.O/% ,!O/#-&##(-7/" !/" #'*%-,!"(' 2!"4" #'*#' #"
%'" O.O/% ,!O/# -& ##(-7/" !/" #-(4(*-(%-2 %' 2"% #'*K
#!' #'*%-,!"' 2" ##&-'" 4"/(-'/'(' #"4!-(4"!-(
#'*%-,!"' '%" O#"/ [2-("%-*/ ,!" '"/2*/%"

'$- ?'1 42-+:#3' #" $" ' O+*!'
$'# ,& T6#%#H& D#@'*@%-@["@+O/E' /' 1!/"
+O/-#'" #'*%-,!"
'$- ?' +, "%&" (!$$&:" +"X%
,&,%OH #' D#@'*@%*@+O@/-"E' ' "'+(#"
+##"2-/"' &-#/O%-*/' +"/%O&(20!(#" 40" O+*!'
!'20'O"%#'-(#" 40" !/' ##&-'" #'%-,!"
'$- ?'1 4g" O+*!' "% 40.%O'$*&-"
$' *8' 4$- &" +*%7'"2 O80/%
!6 "(4'-% '!#" ,!!*/'2"/# %*!9*!'(40"
' D @''O/' ''O/@%!E' 6' NN d Q!-
"-%"' ,!-' /!"(%40($-:#' "!4&" "'O/%(' *'#"("'@
'O/%"(' O -" "'O/%" ,!"' 9" +#/" #"4!-(,!O'O/@
O/("% 4&!(' +!O80/% #*/#'*220(-*/' #" .*-" "%#" '
.-(-%"' 4&!(-"!'(4&!(-"!'($'*-("%#" #"4&-((#!"
7'O/#" 40'%-"' #"(4'*.-/2"(#" #'*%'" "' 4'"+" 9 !
'! P' O/(+O-/% O!%"' c ' (2-"/2" 4'*@
$*/#"' $-O-' &!' ,!!*/'4"' [%'*4' 2*!-' &" +*/#"5
'#(@'O'" +"/% "/' #.-"/%@*/' +"-&&"!' '5 /' (*"%"K
'O/%"(' /" 2*/#!-&-O/-(,!!"' ' '"' ' 3 /
' "('%'O-%"(' #" (O/7'"' 2" (4"2"/%" 2"!'O/%(' *+K
;"' 2*-/'(' *'(-' 4*!-&' *'#"(' 4'O&" 4"!' 4*!' 4&O@
#"(,!-' "'O-%" 2*++" &" 4'"+-"'' [(" $-:"' 2" 260/7"@
+"/%' #*-% #'*%-,!" +"-&&"!' "%' "+*'"'4'"-+"+"'"(
%"+4(' &O2" #" 2*/#-' 2-"/%(' 2"%%" 2"%%" "%"' "#" 4"/#
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26*(" "'O/%"(' C' ' N -7' ?"/"
!/" .-"'"O/%"' .-"' O'60(O'#' (O/(;!%' N %-&(
"'O/%"(' &O/#"' &O/#' 40" *44*(-%-*/' O!:'(#%*&-(
$-:"(' ' !' *#%-,!"/"' Q!-' $-*%"' +*/"-'
##%[(!" +((#."'("'O/%"' 'O ' -/'
R[O" ":%"/("(-*/ "($-:" 4H' +O7-/O-'"'
"'O/%"' %' O-/(' ,!" +*/' 2*'4(+*/' "(4-" "(@
"'O/%"' ?# ' ' !' /*(#"(-"'O/%"(-'"/
!O" !'" &" 2*!' ,!-' 4&O-/"(#!'!6!##4&O-%
"/' 4"!'9*!' !' #9 ' #O/('Q!" 9"
'O$$"'+O-' .*%"' $*%!/" "'O/%"' '' $' #O
"' '!' (8"!:'2"!' ' (*/%" 4&"-/"(#!!/'$!!'
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&"(&!' +-(" 4-&&"-/' 1(" ' 2"++*(--+' 2"+"'
!" ("+"!' 4/"(' &O $-/'
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#"!' "!' (-:' 2!!'"' /" %"/%' "$-&"' #-#" #' (
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%*'& 7"/#O-"!' 4"!4&" 4"!-(e' #-(4"K
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#" 4#%O/%(!/' "(20#'*/'$*!'M'-/' # ' .-&-' NN (K
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+-&-%O-'"' 0-'" #"(' .*&!%-*/(4'*4'"(' ;' &O 20.0K
&"'-"' O/(;!-%9*!'(' -& -'O (18 %O;&-% 0."2 %*!%"
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;*"!$,!-'O %'4"'$*'2" 40"&"($0;'-20/%(#" +*!&")
;' ;*!%*/(
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(O!%;' 1O-#" #! 2;"&&"(' &&*/%"' ;' 1"(20&O#"' .O
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S"O/ "*7"' &"2%"!" #" 0:" "% 40" "(20&O#" &"
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YMM' #0/(B' I' 2%-*/#!!/' .*&"!" ,!-' (1-;@
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2& %!'"' ' 0'%'Y)A'@ *&;' 1"(20&O/"
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0+026"' " ' BA ' &(' "%*!'/'"'"/%;'
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' f ' %O&' * ' #" * ' 2;"&"'' #!
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7 O/%(.*!&O-"/% "(20&O#" &" 2-"&' S" 2'0-/(' Q!"
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' ;(*%!+"/% *!-(' O ' /%"/O &!-@+ +"U;' !<"J
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&"!"% %"' 1 4 " ;' &O +0-/' "% 4*!((' 40"&"(40!&"(
4*!" "("#O#"' (!" &"('*26"(% (!"&"("% 90'#-/'*/
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!/' +!" #" 2&#%!'"' S1"(20&O#"' &"(+!'(' 707/" !/"
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X' ?' >*
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' D @([O@!E' ' ' "'+" #" +0'-/"' -&&"
+0'-%-+"#" &O #-$"''0/ " *!'4&!(40'%-2!&- '"@
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(*&#O%(>"(20&&"' "(20&%" U 2;"&&"J' ;' &O (O4"' ;' &O
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'$- ?' %O&' * ' 2;"&&" D.*8' 2" +%E 40'2"
,!!*/#"(2"/# ;%"''" ;' 1O-#" #!!/' 2;"&&"
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"+4&*8" #0/(&" ".0/%' "&;26"
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,!O''-' ,!-' ("% 4*!" &O &"2%!'" #!#"((-' #"(
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\ 'D @([O@&*@4!E(' '%$ #" 2!-(-/"'
'O/26"(#" ."O!*!/ #" %*!%"O!%"'.-0/#" 044' @
% "(#!!/" +0/- '" 40'%-2!&- '" (20&"4"(#" 4'"@
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' ?' /2'$'O/,' * " '2*,!-&&"5 O&-+02"
7"%"' (*/' 2*'(" 1"(20&*4" %*!%"% %*'(' ' /
M' 3 " ' %O!% !/" %'0/26" +-/2"'O 4"!%@
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#" 2*+"% *!' 2*,!-&&"' > * " ' O!' "/(#" 2*K
,!-&&" "-"/% O!' 7"'+0/-,!"' O&&" +' #*' 20-&&"'
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" 2*!%"O!' #!"(H4"' "(% ;'%O 2"-/%!'"'
- O&26 '=' ' Y)B
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+"'2"' *-&" #" 2*%*/'#!' ' ."O/%
' D @([O@+*@%O@9!E' ' ' NN I' 10'%'
$O2%-*/' #" $"(20+*%"' ' 1"(20+*%O7" O22*+4&-'
U!/' +*'!";*-" #0/(!/" &"%&-" &' 8' O.O-% !/" &"%&-'" #!0@
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'"#"((O "% 40((O*!%"#!!/'0-"20&+"' ' ') V
" ' ' ,7 ' M' NN I 17' 2%-*/'
#" # '*;'" (!;%-&" +"/%' O &*%"'-""%$- "" &" 6-#"!:'
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&- 72 ,!-'("% ;"(20+*%"' O."2 &"(7*;"&"% NN /'
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%*!' #" 7*;"&"% *!' #" %*!%" O!%'" +0/- '" =(20@
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"(20+*%" ;-"/NN I' 0" ":%"/(-*/(# '*;'"(!;%-&"K
+"/% ((" +;&" O!%*!"#!'20'"((" 4*!"'*/ "(20@
+*%"' &"(*'0/7"(' '2 ' *'?*/(-"!"
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+0/% ,!" +!0.0-% #*//' &O 4'-/2"('9
' ' &" . ' NN -7' "(2*!%-(0/(0.-#"("%
*$$-2"'!:' ,!-' #0/(2"(*220(-*/(U . /"+"/%(-+@
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+0-(10."/-" "(!/" "(4 2" #" 260'&O%O/' ,!-' "/'
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' M' YI "'+"#";*%"--"" -"'&"(":@
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$- 1 %*$$"' I "'+" +-&-%O-'" (20+*%"" 10'+"
(!44&"-+"/%' ;"'&*!%"/' #"(-'2" ("%"'%O-2"
+!!."+"/%(4'"(2"'.'"(#O@!@$"/%"%+!"/%!(+'2"2&!2"&O2"/2"&O
?' "'!/'4"%"/% !/" 4-&&"' "/ #"((-"
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'#" ? /07"' /-' +, ' -/#-,!' 0."2 #*!%"
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/"/% '-"/#!0((!'
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,!-' "(20+*%"' $N I -7' (20+*-"!(" "(20+*-"!'
2"&!-'2"&&",!-#"'"; 4(!;%-&"+"/%
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0-'" #"("(20+40%-.*((1 26044" $!'%-."+"/%
$0-'" !/" ;("O" $--'%-." 6'9" .*!(8'4'"/#(
#*/"'00#0+" +0 $"++"' "% .*!($0-%"("#"("(K
20+40%-.*(4"/#0/%!'9" #*'(' '2 !'
'B' ' !' 'S" (!-(&0(#!0%%"/#'"' 9" +1"!

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'L ?' '" +f+", !'" 10/2'$'0/9' 4- 2'"
#'" ;*-(D.*8' V
\' DR@(%"@ B@'1E' K' "'+'"#"260((''
"'$ "(%"&0-'" 2"'$ 044'-'*-(- ,!-'"/.*8# #0/(&"(
;*-(' ("'% ['" '0+"/'" #!0!&'"(
%' D[@(%"@&-/E' /2-"/ 4*-#(' 1"(@
%"&-/' 2*--%-"/% B 7'0-/((5 &0 +0-&&" 2*/%-"/%
' 7'0-/(M5 &" $"&-/ 2*/%-"/% A 7'0-/(R'
' *' ,' '%'.-' M
'$- ?' *8' (%'0*
%' H ' [@(%[@[1E' ' ' !%-&#" ;*-(#*/%&'"
4*%-"'"#'D"''" ("('"% 4*!'"%"'+-/'"' ("([;0!26"(
'$- ?' &&' RD"2["/' ;O%*/
'D[@(% E P '/' "'+'" #'"40&0-(' (-%#("!'
"+"/%' 1-/$&/-%-&#0/('2"%%" 46'0('>"(%"'"/9!7"@
+"/%'4*!$;!- '" !/"'02%-*/' "/'9!(%-2" *!# $"/#'"
[2"%%" 02%-*/' 2!"(%@[@#-'" ("4'"("/%" "/'9!(%-2"
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+0'-' '. "'0'%' R' N (%"'"['#'*-%'2*+40@
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,!!*/'0 '"2!"5 ":4'"((-*/'#'" 0/2-"//'"9!'-(4'!K
#"/2"' ,!-/'" (1044&-,!0-% ,!!0!#'*-%2'-+-/"&' '
$0&&0-% ."/-'"(%"'"['#'*-%(*-@'/['+"' ['+-/(#!!/"
#-(4"/("":4"(("#!'*-'.*/' B ' BM'
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"40(+"' /'" 4"!% "/'4-"<"(%"' */"'4' A' 0-(@
("< "(%"'" .*(%'" -'" ,!- ."/%#" +0!.0-('0'%' # 7'
OO' O f(' '%-"/%#" +*-' ,!-(!%(0 #0+"' '*-(
$*'2"(' ,!'" #'" 2*'(' ,!'" #!0+"5 0" ;-"/'4!-(#-''
(0/('+"/%-"' S"&$0-("(%"''.-.'" "(%"/%-'' '<
YB' "408('#'*/ "(%"(%0/('"%###+*'0/(' >'
' O f (' % 4*!'"/'9!7"+[/% D0!,!"& -&("(*/%
#"$"''< "% 022!("< #'" /'" .*!&*-" "(%"'E 8'$0-'"04@
4"&" &"(#"%"/%"!'("% *22!40%"!'(#!-2"!:'&"!'(
#'*-%(' ' ' ' % 'Y
'? $ ' '*."/,' 9' '"(407/'"%
4*'%!7' '-%0&'(%0'"5#!'&0%-/ ' %""#";*!%5
7''2'D '-.%%5 0/(2'-%') '2*+4' g"+'
H@(%[@'1E' (' ' 0%%"#"9*/2' (%['"(
!' /0%%"(#" 9/2'&'" %** 4"(0/% Y &-.'"(' 9
B ("4%' MM
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#'" +0'-/"' &-,!'" 202;['" "/%"" #"!:' +*'/"((!"
&"("#%"(#" 1 +['-,!'" "%"("'.0/%#" '"$!7"0!:'20@
;*%"!'(' B #70'# #'" 2"#"(U20'70-(*/(J ,!-(*/%
+*-/#'"(' "% #*/%&"(;0',!"(0/7&0-("('' ;* 0/#0-@
("('$'0/,0-("("%#0/*-("(*/%*'#-/0-'"+"/%260'@
7["(' */'&"(4*'%" #0/('&"("(%['"(' 21"(%@[@#-'"0 :'
&-"!:' #!"+;0',!"+"/% "/' "+;0'20##'"(,!-(*/%
[&*-7/#(#"(.-&&"('*!'0!:'"+;*!26!'"(#"('-.-['"('
0 3 4 '3',.--'4' "0 "C"
D[@(%['&&-/E-' (' ' *'/' #!!/'" 0/@
2-"//'" +*//0-"
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% $-'"/% 2"(.-/(['0.0&&"'"&"(.-/(, 0%'"#"/-"'(
"(%"'&-/(0!'70&*/' ' D
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./-70-'"(#" 1"%*!+"0!
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%!';*%('"%2
$' '#' ' *8'#8 #)
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$' 'D[@%"!E' 0' +' /"-"!/'" *'%6*7'046"
#!#%"!$' 0-(;06'.*!('.*!&"<M%'"%%/' 70- 0'# 4*@
4!&0-'"' #*'# #"(;*!'7"*-("% #"(+0'";0/#(
#!"(%"!$(' .'/!2*' <,4 < '&!'R
$' $- Q D[@(%[@<*@#-@[1E' *#9' "'+'"
#!0/0%*+-'" "% #'" 468(-*&*7-' Q!-%'0/(+"%&0 ("/K
(0%-*/' !;"("(%;[(*#-,!"('%!;"(/'".":!:'#'" &0
(!;(%0/2'" 7'-("("'.0/%' (0/('[%'" ("/(-;&"('#'"
2*/#!2%"!'('#"('-+4'"((-*/(
' ?' * -$$-5' ("/(0%-*/'"% S2' .*-"
' D[@(%[@%-@[1E'#' ' 2-"/2'",!-#"K
%"'+-/'" &" 20'02%['"#!' "0!' #0/('&"(' 4'*#!2%-*/(
#'" &0 /0%!'"%#'" 10'%5 46-&*(*46-'" ;"0!:@0'%(
'0-%['#"(%6[%-,!"
' -*"! -:-2' #'" 0&! -2. !#0-' ("/%-' f(@
A +, ' 0 [%" 2'[M 40" 1 &&"+0/#" 0!+70"/'
#-(2-4&" #'" C*&$'H-/*++0'0-/(-2"%%" (2-"/2" 40'2'"
,!-& 2*/(-#['0 1-#['"#!' ;"0!' 2*++'" !/'" 4"'2"4'
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' $- Q D[@(%[@%-@['E' 6' #-% #'" 2#!
,!-("' '044*'%" 0!' ("/%-+"/% #!';"0!' +4'"((-*/'
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#-%' #0/(&'" (8(%['+"'#'" =0/%' #!' 9!7"+"/% &*'(@
,!!-& 2*/(-#['"&"(' $*'+"(#"(26*("(#" +0/-['" ['
"/ %-'" ' !/' ("/%-+"/% #" 4&0-(-'
$' ? ' D[@(%-@*@+[@/1E' 0#9' "'+'" #'"
+[#"2-/"' Q!-'**7"' ,!-2*''*#"' "/' 40'&0/% #'"
2""%0-/"(!&2['0%-*/('N '%/' /' "(%;-*+[/"
' ?' 1 G'%-M4".*G' '*/7"0/%' #'" -*B-"%.'
+0/7"'
%' = D[@(%-@("#E'(' +' *'%" #'" +026-/'"
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#'" 2*++!/-20%-*/"/%"'"!/'&02 "%!/'" '-.-['"'"/%'"
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#!['%'" "(%-+[' "(;*//"(,!0&-%[(0!'0-"/%[%[
#!!/"7'0/#" '"((*!'2" ['&0 '0/2" ['&0 +*'%#"
!-(O '#/% -& [%0-% 4&!("(%-+[' ,!0-+['40'2"
,!"/ "$$"% -& [%0-% 4&!("(%-+0;&"' ,!!0-+0;&"' 'ZB
'# ,/ '4' M ' #0/(/'
"(%-+0;&"' *;9"% $*'+['#'" .*%'" (0/7' 9 *'
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B ' ' ' *!([%"(40!.'"5 .*!(0."<&"(' ;-"/'
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,!0&-%(*(-#"(+0-(/*/' ;-&&0/%"(' /'0!%4!'' !/'
&-.'" "(%-+0;&"' /%'0.0& "(%-+0;&"
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%7 '"(%-+"'
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,!"% */(&"(' 6*++"' $!(("/%#"(' "(%-+0%"'!'(0!(('
9!(%"(' ,!'" &!-&" 4&!((*/(0+*'!' /*/ "(%-+0;&"
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[&0-'[,!!['!-%0;&"' 9 #"(f%' -.'
S!(%"' "(%-+0%"!' #!' +['-%"' *!-(O '2*//0-%(0-%
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0 4*!'" *;9"% !/'" "(%-+0%"!'" f%0%' #" -("(%-@
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' M' & : -f(' /' 1*+"!' "!/%'"(/'"/%' #' &"
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"% -+07-/0%-*/-2*++"' !/+07-($'0%' 7 '#'
'&5')
'# $ '> '4'*."/,'
? D[@(%-@+0@(-*/5 "/' ."' '#'"2-/,
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!-.0/% "(%-+0%"!'" ,!- "/'("0$+%-" 40" #"(":K
4"%(?"%%%"' &" 4'-:' "% 1"(%-+-*/'f ['";0,!
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9!7"' "/%#!!/'f 6*++'" 4'!#"/' "/'("/% 2*/(%0 [[2!
+*/4['5 *$% -'0%%@*/'26"'26"'' !/'6*++"'4'!#"/%
4*!'$0-'"2"%%%" "(%-+0%-*/3 0 /'A'N 44'[!
2-0%-*/'7!!*/'$0-% "/' +*/' #!' 26"-+-/'40'2*!'!' #'"
&0 4*(-%-*/' #!'/0.-'"' "%2' 7/*'"@%@*/'1-+4'"$'2@
%-*/'#'" +[%6*#"'("40"&"(,!'" "(*'*('+/'2;"@
+-/' ,!0$0-%!'/' .0-(("0!'"% "(*'/'9!7"%#!'&-"!'*#-&
(!9"%%((;-"/'#"("'!'"(3' - % ' ' '
B' !9*!#6!-'*/'#-%4&!%[% "(%-+"'N d S!7"+"/%
40" &",!'&*'0%%026"' #!' 4'-:' 0/(("(4'"+-"'(
"2'-%'-& (10%026" #0.0/%07" ['#['%'!-"' 2" 4'"(%-7"

2#!-&&!(-*/' ,!- /*!(#*//"'!/' 0#+-'0%-*/(%1-4-#"
4*!'&"(-/(%'!'+"/%"'(/%(+-('0-'*/-("('"' ,(2*''-7"'
2"%%%" "(%-+0%-*/' #'"'*'+"'/!'("' ,!- /*/%$0-% 6*/'-"
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' -/f(' % (0&'"'#*/% #*-."/%"(%"(%-+[' 40-[
40'1"(%-+0%-*/'#!'9!7"' '1 1 ' D ' N : . -f('('
"'/#'"#'"4&!(; *'' "&&"'"#" ['&0 2*++[+-"40'
"(%-+0%-*/' ' S!7"'40' "(%-+0%-*/'"#"(
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2"/('"'"!/'2"&0-'/+*+"/% ;"0!2*!'U&"(
%-*/'#'"#"/(-*/'2*//0-((0-'2"' 9 '
Y$ 4!*#!'(!/' ,!'&0%-*/'#"(/0-((0/2"'#'" (*8@
+"(+"/%"'&"!'/+0!-'"+"/% &!#!"'2"(9"% 'DJF
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%-,!"' 02!&%[' ,!- 044'"/# ['9!7"' ['044'["-"'
"/'!(-%[' -
'-$'>
%' ? D[@(%-@+0@%*-@'1E' 6' "'+'"#-@
#02%-,!"' Q!- 2*/2"'/'" "(%-+0%-*/' N "(
02%-*/' ,!-' [*+" 0.0-% 4*!'*;9"% #'" #"%"'K
+-/"' &0 /0%!'"#!'2*/%-#"' ."/%"' #'" 4'['%"2
' ?' 0%' 7 ,' #'" 7 "(K
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? D[@(%-@+1E' ' ' N d "/%-+"/% ,!$
0%%026"' #!'4'-:' [,!"&,!!/'*!' [,!"&,!'" 26*("'
!(0./('!/'"(%-+0%"!'"'7'0/#"' 6*++"
," /*!('!/' ,!'" 4*!' !/'*!'"(%"' #-/'"('2'"/%/[/!/
% #'" /!['%"' 4"'2"' /'"(%%'"+0/%-"' "+"(%"0!
+0/(#"#"/% 40 /0%!'"#-!'(0'.0-("%(@
"%"'#'"(/!!'("'(4"/"#-*/-%%("&%!-'"/%
$[&-2-%['#"(6*++"(2"%%"("(%-+0%-*/(#"2"'"'
2"%%%"(4"'2"' !(*!'2*(#"(4"'/-"'#-/%!'"(
0 ' 4') ['%!*0%!(0 ("/%'"(4*"%-,!'"
#'"2"'/%#"&0%-*/("(%"'#-+0'#!"*' ;"0!%"(4!'"(
0 /' Q!!/-(%-'""#!'/0%!'"4'"(%-
(1044'[%"4-,!'"' N'"((%"4'-:' ;-"/2*((0%"(0
4*!'#-$$"'/%&0&0'7"#"&0/0%!'"4'"'1-2-(0%-*/'
4*!/#"/%"'-:%+0-*/%"4'(+*'%0&"(;-"/#"2"'%
,!'"/4'"(%-7"2%'"/4'"+-"'"0!2*/%'0-'"1
.) + '< , " '#0/(-2
&&" /1"/'40'&" 40(0."2;"0!2*!'+"/%" ' '
Q!#(4"2%02&"#" .*-'"%#!%%!'%-"'"2"("#"!:' 6*++"(
U +#["'% /'"/"J'"%#!044'"/#'"#'";02!0#1"!%
"(%-+" ,!'" +['%0-/"%0!%'"%!' "(%-+0%"!'" ,'
1 ' */("(+[%0-/"/ ."%-+"(%-+"/% "/'*-' ,'"S
+'Y' 0-%@&"/'0$0."!'9!(,!!*'[.0.%'" "(%-+"'A
'A * ' *!(#"."<0.-' !/'60!%
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#-7/"(#"!/;&"-(%*!'"(3>&' '#0/(4*%@
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/"&' +0-(#'" 2"/%'"-/+['-%"(#"+"'%+0-'!
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4&!(#"4-%-[%"(2*+4-%"&"(0.0'"(*!'0'"(
#"/"/(#"'2"'2"' ' 0 .@!(-2"
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4*"(%"!'#"+0/#"(0%"!'#"'"/(%"%(%'"+0.0-(N%
#!"%"(%-+0%"!'(%!'"(/0%!'"%&"/"+[-%"(2"(+"'"
!/"#-(4"/("%"(%-+0%-.-%[%-/'"(%-+0%"!'
6 '9*!/'#"(2*(0%(%-"/%
2*!/%'0%"/%"'!/'"4'"!.'" "(%-+0%-*/'
%-+"'""(%0%'!/'"4'"!.'"
4*%0;&"("(%-+0%-*/("%"(%-+"'"
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"(%-+"'"#"!:(%-+0%-*/(
,!'"(%"4&!("(%-+"'
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"(%-+"'" 0 "(%-+0%-*/'"#'" 4'"(%-7"

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&"$&O/2' -0+ '# 7' ÑÑ 'O/#" H4f" #lO'7"/%
#*'M';#/-%" 40"&" 404" "% O22*'#H'2*++2 +0',!"
b#" 2*/(-#$-'O%-*/' ÑÑ MI' Ơ 4*-/%" #l!/" 4 "' *!4
#l"(% ' '044"' #l"(%** "% #" %O-&&"' ÑÑ -7' 1"(@
%*2' "% #" %O-&&"' #" ,!"&,!" +0/-H'" ,!" 2" (*-%'
1-+4*'%"' 40'&*/(@" /' "% #l"(%*2"% #" %O-&&"' *++"
2!&O-'"' %H+-/' '& " '-' %' ÑÑMd O(" O4&O%-'
(!'&",!"& % $O-"/2-" "+4-&" &Ơ%"'" +* "' ÑÑ /K
(%'!+"/% O'"*'&",!"& -% O'*/#-% &"(.O("((!" &"
%*!'' -' &Ơ 4-%2" "(% # &-2O%"' -& %7O&-(" O."2 !" (
"(4%2" #" &O+" #" ;*-(O44"&H" "(%*2' ! ' '
O'%(' ' 'O ' '$ Af "'+" #lO'7*% #" 9" !'
0-'" "($*2' $O-'" 40((""#"((*!(&Ơ 2O'%" #" #"((!(
(O/(,!!*/' (1"/' O4""$*-."
' $ ' :/I(' *I' "/%" "/' ;*/' "(%*2' #"-% ;-"/'
$'!2%-$&"'' W ' ' + ' ÑÑ:+!'(' "/O'%' ,!-'
+*!&%"(%*-% (*!%-(U(!;%-&J' !" !/' "(%*2' U%'*/*" #lO'@
;'"9(1"(%*-%O(-(' "/')B ' '/1"(%*-% /!(.-.O/(,!-'
4"!(% (O.*-DI&" 4'"+-"" "(%*2 #*/% &-' 6"'-%O7" -/%'
g' o ' B' "'-% #" 4-/%"' ,!" &"(' 'O/2<"-(
O44"&&"/% $"'-" #l"(%*2' -' " '9 * '&' -('
$:- I'(' "&*/'2" ,!" -& (*/% 4&!(4'%(*!'4&!(&*-/7
'&Ơ 4'"+-"'" 'O2-/" *!' (*!26" '*!' "(%*2' '
V ' M ' *'(O((O&"/% 4O%"/(' 26-& U2"!:@2-J ,!-'
*/I' */(;O(%*/("($'O4*-"/% #l"(%*2' 4O'+-' &"(6O!@
;"'7* ' O!#' #" ";' .' ÑÑ:.I(' " +1"(%O.-(
,!" 21"(% 7'O/#"//!-#" 4-%"!(("+"/%4"/("'"%O!((-'
2*/(-#"'"" ,!" 2"(7'O/#(;*!'7"*-("% /*;&"(;*!'K
7"*-("("% &"!'(;"O!:' "/$O/%(' ,!-#"(%*26 "% #l":@
%"O2%-*/'O.*-"/% #"+"!'#" "% &"!'(#".O/2-"'(' "/'
&Ơ .-&&" #" O&O-(' #".-/'"/% DO4';(&" (-#7" ƠK
&O-(J' -((' ' ' Y ' (%*2 #l*/'"!" "% O';"'(#"
.O-&&O/2"' Ơ $&*!" #"(4'"!:' "% &Ơ 7&*-'" #" '0/2"'
' !" &Ơ +*"% #" 2, ' " ,!"(#"+%'
#" %O-&&O/% /#!'" +O-/%" 40((-*/' 1O+*!'(,!-&"
*/% O((O-&&O/%' '/1 ' ' B ' O2;"(4OH
'"-&&"(#"(,!"&&"(-&(2*+;O%%'*/% #l"(%*2 #" +O-& */'
#" %O-&&"' * ' '# '26' B' ;' #".O/% "/'
"(%*2 U%*!%#*'-%J 4"/#*-% /' "(2!' ;&O/2' "% 8 O.*-%
O44!8# #"!:' 7&O-."(U&O/2"(J "% #"!:' "(4#"(*/@
"O&*% ,'= ' %'---' $&I(*' "(+2//*-"'(#l"(%*2 "%
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4&!(6"!'"!:' Q!-4'"//"/% #" %O-&&"' "% #l"(%*2' "'
' * ' *'4')' ÑÑO/ (' % 2*+;-"/',!" #"
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4*!'" "(%'" #" &Ơ 'O2" "% +O-(*/' #" (' ".-!($ '
2 1 'Y' &'$!%Ơ &Ơ $-/' '"+;O'" # #l!/' 2*!4 #l"(%*'
,!-&!8 #*/Ơ #'*-% #"#O/(-Ơ ;*!26" 40" %"&&%" ."K
&"/2"' ,!" &Ơ 4*-/*%" #" 1"(4H" &!8 .-/% Ơ '"((*'%-'
40"#"''-"' O!'26-/*/' #!' 2*&' -/' ' M)' &8 "/'
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' MY' A' i' O+--- '"+"/% %%O,!"Ơ &O,!"&&"
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4"'#! &O 2*++!/-20%-*/O."2$O-""% /"4"!%4&!'
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#%'"' (8/*/8+" #" ' ;&O/2 "(%*2' *8'
- ' # O AE 6 8' ' @2' E: 9+: 8 ; 2 .:532532B 4&25
; 252B .2 ?92@2 3B: 9E2B: 8 42 3B: 9<<28 25' 283B2 H89B
< 241O 8:! O . '3' 5O <' "F
' 6' > ' '?92+?92 : 8 8 J5 +4 43B2 42G: 93
< B 952 .:5 98 :5 E2.'+2 E2BG2 '?9' ' <B:<B2
; 253 .2 8258' &283 .2 ?9' 283 BB E4 .

' D#@%'#@(-' (-"E' " ' " ' "/#!
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' D#@%'#@(-'E'.'G%NN d "/#'"#%4&!(#%'"-%'
%'#2-" !/' 6O;-%' Q!-' ("'.O/%' '#&O'7-" "%' #%'#2-"
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4"-/"(&-1#%'#2-((""/%& 2*"!" ,!" -"!' ."!% #-&O%"'
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U#"&O 4&O/#%" O%!+"J (1#%'#2-(("/%' %O/%#% "&&"
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-/%-+"' "4!-(2" "+4(/O,!-' /' #-% O+-/% 4&!(
/*!(,!-' (1"% #*!#O-/"+"/%' ' ' D;F' ;c;
' -7' " ."/%#"!/"%"+4/"&"!' 2*+4'"/#!"
(1#%'#2-% '+"("/%"+"/%" +"(2"'*+2*"/%*+

& ' A' ' ' "'+"#" +O/#7"' /26".O& (1"%O#
2-%&*"("+"/% /1O O/(/4!(*!' 2"/%"'(/"
(*"/%"-O/2"(#"(%#%'"(1/4'*4'"+"/% !/ #%'"
' O I (% (1#!/*(%"/%@-&/%'O'"Q!-/O
.*-'"/%'"&2"/$O/%(O/%&!-+"+"/%"

$- ? > D#@%'#@(-@("@+O/E' I' ' 2%-*/
#1#%'#2-'5 #%O%"'#" 2" ,!-' "(% #%'#2-' 1#%'#2-(("+"/%
#!&-% "O "&O '-.-#"' O22#&#" &" 2*!' ("/"(%'O-%
:.-I' "(4&O/26"% "% ,!-'"O!:' ("'%*!%"(
%O/%&*/7(%'O-/"& +O%' ("!&"+"/%"/(!"&&"
,!O/%"'2-"/"2"((O#&"&-2"/%" 40(("+"/%
#"(2*/%-"/%"/ &"("/%"/#"+"/%(
,!" "/%'"&"'O-(*/ (O' !"/#'"&&"' MY
' M ?' >
?# 88 ,## D#@%'#@(-@(!@'1Z' ' ' "'+" #"
+#%-"' %O%#% 2"/"(' !-' #%'#2-

%$- ' D#@%'#@7/*-'E' I' ' "'+" #"
2*/(%'!2%-*/' /(%'!+"/%O'/-# "2&"$(O."2 &" ,!"&
*/' ("'" #"(4-#"(O((" ;&#"(&"(!/"#O/(&"(O!K
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D#@%'-/@#'1E' 91#%'"-/(' %!' #%'"-/(' -&
#%'"-/%' /*!(#%'"-7/*/(' .*!(#%'"-7/"< -&(#%'"@
7/#/%5 91#%'"-7/O-O5 91#%'"-7/-(5 91#%'"-/#'O-5 91#@
%'"-/#'O-(5 #%'"-7/*/(' #%'"-7/*/(5 ,!"91#%'"-7/"' ,!"
/*!(#%'"-7/-*/(' .*!(#%'"-7/-"< ,!' 91#%'"-@
7--((5 #%'"-/%5 #%'"-7/O/%' /' ' ' $*'%"@
+"/% 40" !/' &"' %'"-7/"< 2" $O7*%' NI BI "''
4"("' &' #%'"-7/-(-' $*'%"+"/% ,!-&"/&-$-% 4&"(
&O '"(4'-% % #"(4O'-((#20- #(,!O."2 $*'2"' -&
#"##4&*-" O-(-(' #%'"-/%' #%'"-/"!% 4&!(,!"
' 9 ' ' NN -7' #%'"-/%" #%'#/"'!&(
!/"O&&-O/2"&%'O/(2&O((' ;-"/%O$$O-%
#-!/" 26O/%"' #%'" #%'"-/%-*/ (1O/'%'"

Q!O/#&"(26O/%"+"/%-/#-4"/#O/%(!'&"(4"'(
? # " ' ' ' ' ' YI 1#%'"-/#%'9E' '
("'" !/' O!%"' "(#%'"(' O%#%-%%!&#(-/%'"/%"
#"(&"(;-/'&"($"+-+-/ .O'-O/%"(7'O/#(
;O%"/2"'O/%"(("4'#"/#/%"O'&"(#"/"
"&&"(4'-(%-/2%-*/("/%'"("/%-"/%"(
4&!(2&O-'"+"/%"/"/%'"&"(+O/-"'"(
&"O1 0%"4'#/"'O."2-2'-/-%-*/%#
&"(O!%'"(2*/(%'!2%-*/(O.O/2"' 4&!(
4'-%%'""(%&O/2-"/%-"/ 40'2"%O+"(
%"(%4&"-%*!(*/ (#%"/!"&"(O/
%*!(2"(!(O7"(+*/%'"/%4*!'4'!2'
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4!-((O/%"!' %"+4(%"%#O."2"'2*/
' O&&(-"/("!'("#/2*/"'4&!("/2*'"
&"(-/%"/%-*/(2*-/-#(&*-/"4(!/"
&"(%O!(4'"/#'*//"!'26*("/4!-((O/%
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,!"&&"(+"(!'"(#"(#%'"(4*!'&"(
!&"(/"(%/4O(2(&*-("&-#"("(%'"(

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R $-

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R $-

' d ;(-4-' 40" 1H.04*'O%-*/' -,!"!" H.04*'-"'
?0-(04'e(2" / ! H"' "%' !O-' #'04*'#' 9
2 *'' ' ' -((-4-'2*++", !"&H!" 26*(", !-'
.04*'"' *!(1022"4%'"'< Q!O!# .*(4'"+-"'(*!!
4-'(("'*/%#.04*'#(' C ' NNBF S -7' Q!'
O #" 1?*!'#"'-" O."2 4"!'#" '"("'."' (%8&"H#"
2"(9"!/"(7"/(M.04*'M(' (f. ' Q!" (!" &"
-(07" U#!' 9O'#-/-"'J -& 8' O-% !/" 7'O/#" O44O@
'"/2" #" ;*//" (O/%#' "%, !!-& /18' "/' O-% 4*-/%#1"(@
4'-% #.04*'# /-' #" (*%%(4'#(*+4%-*/'! ' "
'-' ' &." !% f%'"$*&?'"' M.04*'f' 4&O-(O/%'
O' ' ' (" #-%O!((-'#"(26*("(' /' &"(
##2*!.'"-% &"!'(+O/- '"(&-;'"(')' &"!'(O-'(M.O@
4*'#(' e&"!'(40'*&"(4"!'+"(!'H"("% 4"!' #-(2'6%"('
**//'O ' %'--'4' *O' -'%*/'-', !-'%*!% ##O-%
-70&' +*/%'O-% !/" 70-"%# #'04*'#"' 9
A' ' !;(%O/%-."+"/%' *!'$-%(', !-' +1"+;O'"O(("'
"(% !/'#'04*'#' ' ! "' /-'%' & $-% .*"!' #"
/" 4&!(*22!4"' (*/'2*"!" #1!/" 4"%-%" #.04*'#"'
- '2 '%*
' '#. $-'$-. $-' !' " '4'*4'"' !/"
&-, !"!" "(% #.04*'#", !O/# (O(!;(%O/2" (1"(% #-((-@
4$"'"/' .04"!'5 #-"'H '#."/%#"', !O/# &" 40'$!+'
, !-' &O #-(%-/7!O-% (1"(% $$-((-4#', !*-, !" &O (!;(%O/2"
4!-(("'O(%"' 1"O!' (1#.04*'"' "% /" (1#."/%" 40('
/" ;*!%"-&&" #" .-O "(% #."/%#"' (-' &" .-/' O 4"'#!'
(*/'O'*+"' !'$-7!'#' 1#.04*'#%-"/% 4&!(#"&O #@
7#'"%# #" &O 2*/#!-%"5 #."/%# %-"/% 4&!(#" 1#@
%*!'#"'-" #"(+O/-#"'(/'2*, !"%%" O #"(O-'(#.O!
4*'#(' +O-("&-" / O 40(#"(O-'(#."/%#(
' D#@.O@4*@'#E' ' O'NN I #(*!#'"" "/'
.04"!'5 "/' 40'&O/% #" ' &-, !-#"(' f.04*'"' &"/%"@
+"/%' !/' &-, !-#"' 1#.04*'" # !/" #*!2" 26O&"!''
' d -7' */"' -((!"' &O-(("' (1":6O&"' % , !"
2;O2!/' &O((# #!' (*!2-', !-' 1O22O;-"' 6"'26"'
1#.04*'" 4*!" &" +*-/("(% #-(2*!(' ' $ $
' ' %*' S" /1#%O-(4*-/% $#2;# #1#.04*'"
+O;-&"' ' OV '-.')' NN 1#.04*'"'P' '
1"/" -#&"" "/' .04"!'(' 1"(4'-% #" .-/' (1#.04*'" O-@
(#+"/%' NN ."2 (!44'"((-*/' #!' 4'*6*+' 4"'(*//"&
0-'" #.04*'"/" --, !"!' !/' $"!' &"/%' NN -7'
Q!O/# &" 2'"!("% #"('*#*//O/2"("!% $O-'" ."O@
4*'"&O &*-' O ' "/%'! NN d -7' '#40/@
#'"O!' #"6*'((" $O-'" 9*!'((" $O-'" "/%"/#'" SO-'
2O26# #' &*/7%" +4(-1"//!-' ' +" ##.*'" Q!!"/'
##4-%, !"91" /'O-"-&$O!%, !!-&(1#.04*'" 'O '
! ' & *!$$'"<, !!!/" -+4'!#"/%" O'#"!' '#%'
@9%(1#.04*'"''"(4"2%" +O4!#"!'-/'%6 -& %' "+O&
, !-' (1#.04*'" "/' #".-"/% 4&!(#7"' "'#, '-
-//*2"/%" 9*-" O-+" '(1#.04*'" O!'7'O/#9*!'
*!(('='# A 1' ' (4"#' ' ;(%#/@
+"O%'O."2 "&&-4(" #!'4'*/*+' 4"'(*//"&' O-((*/(
#.04*'"'!/4"!'(O ;-&" ##+!"' ' '
' "#-((-4"'("4"#"' "!" 2*/%" +4&O%-*/" U#"(
4;#*(*46"(J (1#.04*'O-% !" .O-/"(4"/(#("("%&"!'(
40'*&"(O%-((-'4"!' (*&-#"(, !!"&&"((("+;&O-"/% +O7/-1
$-, !"(' ' ' % ' !' +-&-"!' #"(9"!:"%
#"(O(("+;&#"(*' 1 e+" ("#-((-4" "% (1#.04*'"#!'
#-/O-'"+"/%' &O (-"//" (" '"2!"- O-%"/' "&&"@+#+"
O ' ?9 ' " /1"(% 40(, !" 2" 2*"!"("
(*-%9O+O-(#.04*'#O/(&"(26-+#"'(#!/"$O!(("
17&*-'"' ? 'C ' , ' 9, (, !!-&
'!' H O #" &-O'7"/%' (*/' O+*!" (1#.04*'"' ?
! / 40((# , !-' (1#.04*'"'
'-$"#-%'O ' % , !" &"((O-/%(#26*(#" &O .* %"(*@
/*'" " 4*'%"/%4&!(;'% O/% O.O/%, !!-& (1#.04*'"
"(*!4-", !-'%"26"'26" "/" +*/%O/%."'(&"(2-"!-'
' -' B' U O .-"J */7" , !-' (1#.04*'" #%-/@
-' 2"&&", !-'$O-%' "'%6'&!') 'U *" "(4'-% (1#.04*'" -&
V H #"."/%$*!'SO- ' . !' "(8"!:'(1#7O'"' %("/" "@
' I 4'-% $'O44# (*!#O-/'(1#.04*'" "' 0
' --' "NNd?*/%'"'"#" &O #7#'"%# #O/(' ("(
h' ' ! #-(2*!'("#O/((O 2*/#!-%" " 9"!/" 6*++" (1#.O@
V 4*" 6' '2*++"/2"' ' (1#.04*'" (" #-% #2 2"&!-'
, !-' O4'#(O.*-"'+"/#!/" .-" '#7&#"' (" ##"O/7"'
$-. - +4&*8#("/40'&O/%
' '&-, !-#"('2"(+*%(4"!."/%#%"' #-(%-/7!#("/"2"
, !" 40" 1#+4+O-%-#O-(("4"'#"'"&O .04"!'2"'
9' ' -#-O%+*(46#"'%O/#-(, !!*'&O "2!"-&&" 40" &O .04*@
'-(O%-*/' /' .04*'-(" #" 1"O!' 4*!" !%-&-("'&O .O@
4"!'O, !"!("2*++O"$*'2" *-%-2"' /" .04*'" !/"/
V":%'O-%' !/' (&'*4' 4*!" &"("(2*/2"/%"' 21"(%@ ^#-"
O$-/' #1"/'O!7+"/%"' &O #"/(-%# "/' #-+-/!O/% O@
, !O/%-%##!' ?, !-#", !!-&(2*/%-"//"/%'
' 4&!(1#.04*'O-%-*/' (" $O-% +#+" ' !/" %"+4#'O@
'"" ;O(("' %O/#-(, !" &" .04*'-(O%-*/' (" $O-% &O
%"+4#'O%!'" " #" '#6!&&-%-*/
' O I'(Q!"&"($!+#"(#!' 26-"$ (" 4!-(@
("/%&H-"'"+"/%' ".04*'"'"%40((" 40" &"(2;"."!:'
+'6# " 9 ' H' % ' / ' NN:-/' ' "$"!'(1"(@
%O/%#.04*'#' %*!%' !/-/(%O/%' +*/'O/%"' '
' Y B
b- ' &&' '*."/,' 5 !# #' !# #3 ^-

P
/ " ' '-%O&'N/ " '#!'&O%-/' / " 'G" '
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H ' f D#H'Oc#' <#"E' " ' " $-' H"'"
#.O(#&& O+-&-#'"+"%' /' / H' #.O(#' /"< #*/%-#('
/O'-/"((*/%%'#(@*!."'%"(
'$? ' D#@.O@<"@+O4E' d ' NN I 2%-*/'
#1#.O("'5 #%O% #"2"', !-' "(%#.O(#' ' /1"(% 40((O/(
<O-(*/' , !" 2" 4"/% U&" 4*/% #,' O-/% H4'-%' (!"&"
%%6#/"J "(% 2-%#5 -% "(%#" %*!%" ;"O!# -^*!"&O 6O!!
%"!'' &O &*/7!"!'' 1#.O("+"/% #"(' O'26"("% &O
%*!+!'" #7#" #" 4-&(5 9" &" +" (!O' "/' %*!(
("/(5 -& O % B 4-"#(#" &*/7 (!" M #" &O'7" (" !"&@
+"/%5 &"(O'26"((*!(#" ;"O!!"&&" (9" #" (2"/#-(*/%YY
40(#1#.O("+"/%' ' = ' , '$ '%-'
&"%%%' ' I "'+" #" $*'%-$-2O%-*/' .O("+"/% #1!/"
"+;'O(!'"2" 2#%#, !-' '"7O'#' &O 2*/%'"(2O'4"
' O I((.O("+"/%' 9
' f ' /
f ' D#@.O@<#E' %' ' NN I &O'7-' !/' *'-$-2"'
!/" *!."%!"' & $O!% #.O("+ #O.O/%O7" 2" %!8O!'
' I "'+" #" 9O'#-/O7" .O("'!/'O';'"' &!-' $O-'"
4'"/#'" 4&!(#" 2-'2*/(%O/2"(9 &"'2"(/'2"' &NYd 1#.O("'
' '."/&" #.O(#" "% O';"(' (1#.O("' "%%" ;O-" .O "/'
(1#.O(O*%#!' 2#%#" #"&O +"'
' O I(' $O!% , !!-& $O2"/ 2*/%'"+"/% ' #!' 4&!'
2"'%O-/" "(4"(("' ' O$-' , !" &" $*/#" +"/% #"' % !-@-%+!'
/" (1"(.O(" 40" #"$*!%" $"' +"%# #" "%'"' 9*-7O/%O/%%
C " '- BM
' $ '? ' 4*!" ' '4'#$-:"'"% / ' (' +
$- C' ' D#X.O@<-$' <-@.19' -H$' Q!-' ("'%
#&!#"' ' #4*/("#.O(-."'?*8"/'#.O(-$
' a ?' *8' #9
#9 ' D#@.O@<&*/5 "/' ."'(' #", /O%'"(8&&O; "(H
(' ' ' d 2%-*/" "(1#.O#"' ' 1"#%#%# 4"' 4&O-@
#*8"' 4*!" +" #" ?O<O'-/H!/';*/' +*'2"O!' 4*!"
.*%' "2!"-&' "%#1O!%O/% 4&!(/#"(O-"' , !1*/' 8
O!'O-% %'#*!.# ;-"/' #"(" 26*("(, !-' "!("O-"/% 1H'
.O(-*/' #" +" #" O<O'-/' #' = ' ' !
A ' -(9O/.' A " ' O4*&#*/' , !-' #"4!-(O2@
2!(O O.*!(% #" 1#.O(-*/' #" 1O-&% 7O!26" #"(
!("("(4*!" #%'"' "(%#' , !O%'" 9*!'(#O/(?-/([
(-*' ' ' ' "/' M' NN d -7' ?*8"/'("O'K
7!+"/%/(#.O(-$(' /"' &"%%%'" , !-'&!-'4'#40'"/#"(04*@
&" .-"("% #"(#.O-$-*/(' '= +, ' YA' &&"
/1*44*(O' ' &O ;*/%# , !" #"(#.O(-*/(' "% #"(O'%-K
$-2"(' ' ' #" ' ' *!" /" &O!(("" O!2!/" ."OK
(-*/' ' 1""'"!"", !" 9"' 2-+;O(' ' - ' , ' $ '
-/%#1#.O+/' +*/(-"!'<"&&"" #%O-%#1!/" 6!+"'
26O'+O/%" "(1O/ #" (*%%&" #1!4'" (1#.O(-/# 1H'
"/'&O'+"(' ' ' , " 1 ' / ' -(
' ' O ' (' S" $O-< #*O;&"' 2*/2&!(-*/(' '
%"'/." U%'*!.'J %O/% #1".O(-*/(' "("-4%!'"("/'
40'*;"+-/"' ' ' O ' &YAY' #O/(!'
2!' ' O ("!<, !-' */%#.*!&%%% "(%"&"(4&!(
(!;%-&"("%/"!' "!:' %*!%*!#.#2"%%("O(-*/"4*!'"@
26O44"' ' 1"(% ," ' ' $ ' BA' !-' "$$-'
' '+-&"#(2!(4*!' $O'+"&" #"(8"!:' 1".O(-*/#"
(*/'4'-(*/' G ' %2'2-.
' O%' / ' #" / 'D.*8'O9 @
%' #9 9 #H& D @.O@<-@."@+O/E' /' !!/"
+O/-$#(-*/#.O(-."

' $- ?' I'*."/2'"!"(2*-' / A 1 1
A ' "(4O7/' 1 " ' 4*'%!7' 6$(4OH5 -%O&'
/ / '#!'&O%-/' 6?* " , '#" " " '#.#@
, !*' D.*8' + , #.' ' / ' "(% #!'$#+-/-/' 2*++"'
#!2 #' ' H !(1O/+"----, '&O!7!"@"%'9!(, !"
#O/(&" :.-I'(-"2&"(
b$ ' D#@.M@[(-*/E1'(' ' "'+" #1O(%'*@
/*+-"' /#7O&-%# 4#'-*#-, !" , !" */' O *;("'.#"
#O/(&"' +*!."&O"/%#"&O &!/"' "% , !- (%#!" ' 1O%@
%'O2%-*/'(*&O-'"' O ("2*/#" -/#7-!-%# "O44"&#" 40"
, !"&, !"(@!/(#."2 */' '%4'*4*'%-*//"&-"'O!'O/!(
#!'#*!;&" #" 2"%%%"+#++" #-(%O/2" *+-/(' 1O/*@
+O&-"+*8"//"#"&O . -"' G / ' #4 ' +*/#2'
! *' "
'# $ ' O%' / * ' O2%-*/' #" (1#&"."' "/'
1O-'#" / , (!4-/'#" / ' ' "%/ ?
4*'%""D.*8' 9# 79 @
' D#@ #&&' $' +*!-&&#"(E' ' //'NN I 2%-*/'
#1#"-&&"' ' "!' !(-$# O!' 4'*4'"'NNBI -7' .-(#*//#
'!"&, !!!/' (!' !/" 26*("(, !-' 1-/%#"((" "% ' &O@
, !"&&" -& /" 4"/(O-% 40(1"(% &!-' , !-' +1"/' O #*/#
1#."-&' *!(O!'"<, !" "!"(% +*-', !-' #*//O-' 1#."--'
' /*' O(%'*/' +"(
-=%+ S "/-'"/#."-&'%"/%-$'O%%"/%-$'NN %'"'("%"/-"'
"/'#."-&' #%'"'O%%"/%-$' (!"("(7O'#"(@
' ' o ' ' "(' O/7&"' +*!&% +" +"'@
.#-&Q!" .*!(1"(%" "/' 7'O/% "(."-&' " 7O'#" 2"'
, !" .*!(#" .#(' ' < ' YA ' ?:.I'(' " 26".OK
&-"' , !-' &"(."-&"/-"'4O" 1"(."-&#!'4'" !#6*+++ "
("&".O'4!-(4'-"4O" 1"(."-&#!'4'" !#6*++' 'I
%' ' I A
' *8' $-
%' D#@.#@ O@;&' $' +*!-&&#"(E' 6'
Q!!*/'4"!%#."- "' /""!'-*(-%#$O2-&"+"/%#."- O;&"
$-' f D#@. @&&#'&&#"' --'+*!-&&#"(E' ' '
' ' d Q!-' O'*((# #" #*'+-'5 , !!*/' O %-'# #!
7*++-&' ' "-&&#40'"&", !-%' ."-&#O.O/%"#"'9*!'
NN I :2-%#'(!(##' "(O#+-'O%-*/(' "(8+40%6-"(
#."-&&#"(' #O/(' (*/' 2*"'' NN BF O-' .-$' &O 1O-(I
."-&&#' "(4"%-%" O&"/4O-(, !-' (*/%$*'%#."-&
#"(' ("YM' " #%O-%#"(4&!('9"!/"("%#"(' 4&!(
#."-&&#"(' "% 'O(("+;&O-%26"< "&&" 2" , !!-&8'O.O-%
#" 4&!(9"! " ($"++"(' !!I ' $ ' #/(('
F' O ' 4' ' #O/(M eH-2"(
8"!:' #."-&&#(, !" .*!((O."< (-;-"/'$O-'!4O'&"' '
9' ' ' / ' M' ' O'/-&-;'"+"/%' %%"$"++"
"(%;-"/'#."-&&#"' "&&" O #" &O '-.O2-%# #O/(' &" %*/'
"%#" &O &-;'"' %# #O/(&" +O/-#" "(' #O/(' &" &"*/'
!/" 4*%#" #" *!-(O.*'" #O/(' "O-'-&&#"(#O/(
+"/%' "(%#' !/" 4#'-*#" !!!&O.-&&#"(' (!' &%*/' ;-
!/" 4*%#" 1#" / ' #"(-"("%' 4-*%"!'(' 7!-#"(
"(O4!-(' "' &-/7-(&-"' , !" #"&&" "(2*/($"+"/%
'!/" 2 2"' 2"("(-/' ;*/(' !#, !"&O 0O/(*/7/"&"
2 ' O/(2*/%'"-/%'#"."-&&#"' "%#"/&" ($"++"(
"&&"-!"(' "(' 2*/(%-%!"/%&!-' #"&&"' 9*-"
"!'*!#O(O/%"4*!'O.*-'"' #"&&"-!"' O/"4*!'(O
(*/%7"/%-&!' %%-&"(&"!'(
"(2"/#'"/%' O&"*/%" &"*/7

' '%' ' &"' 2"/%' 2*-*/' "/'2*/' -*/

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'$- ?' 0%' / 1 '#"' / 'M.-%"'
$- 'DM@.-@%O@9.E' ' ' "'+'"#"' +0'-/"' (@
402"' (!$$-(0/% 4*!"' ,!!!/' /0'-'"')' 10/2'"' 4!-(("'
$02-&"+"/% %*!'/"' &*'(,!"' &"' ."/% *!' &O +0'#"'
260/7"'EN ?*!."+"/% ,!"' $0-% !/' /0.-'"H*!"'#.-@
%"'' 0-'(!/'#.-%07"'NN 0'7"!"' ,!"' #*-%0.*-"' !/"'
@#'-#'"'*!' !/'20/0&4*!"' (&-;'"' 40((07"#"(7'0/#(
;$%%-+"/%(
') ' /
$-.''$-') 'DM@.-@%M'%#"E'" '" ' */%*/'
(1"(%##%*!+#' /'4#'-& .-%M' /'-+4*'%!/'#.-%#'
' "'+"#"' +!(-,!"' 0#"/2"' #.-%#"' 20#"/2"' 60'@
+*/-,!"'-'&O,!"&&"' */' 09*!%"' !/"' #-((*/0/2"' 4*!"
+*#!&0"' *!' 4'*&*/7"' &O'46'0("
'D @.-@%#"E' ' ' "'+"#"' +0'-/"' 8/*K
/8+(' #!#.-%07"' /"' '-.-"'"' *!' !/'20/0&' /10'4*-/%
0(("< #!#.-%07"' #*!' #!#.-%-' &*'(,!!-&' /!8'0'4*-/%0(@
("< #"' &0'7"!"' 4*!"' 8'$0-'(%*!'/"' ;'"+"/% !/'
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' '>7" ' ' ' / ' ' ' NN :.-I(' -"!'
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'"4'"("/%"%" S"(!(@ ;--(%#"4!-(,!!-&4!'O "(%#
":6-;#" 9'$ ' ')MM' +*!"%"!/"26*("%$OK
2-&" ,!-(1":6-;" '%*!("%"/"(#"/-" 4'"/*//"'
' ' 1 ' ' O ' #0/(
'$- ?' 0%' A1 '#" 7' 6*'(' "% 1
0.*-":/ 4' 9 @>+"%6'#"#6*'(
O 'D#@7<-@;? 5 "/'."'('#"2-/,'(8&@
6%;"(E' ' ' f "'+"#"4'O%-,!' 2%-*/'#"4*@
#!-'" !/' 02%"!"/%"4-#"'1#:6-;-%-*/'#!!/'#0(("@
4*'%' ' f 0+-&-#'"+"/%'B ,'#" +*/%"'"#"
%-'"#"(04*26" "%2'S"%-'O-#"+0'4*26" &O;*'!'"
'#%O-%'#"(#!*!+'#"(#&"/*!+'*'!'#"2*'"
&"'"'7!"!""/;"("/'"#!'"/%"*4$"'!"4!-"6*
,!"'&%-#0;!!%8'0;-'"0!$"4&-*+"/%"/%"4*'#/-"'
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#"%*!% +*/' 2*"!"&"(":6*'%O%-*/(,!",*!"+"$O-@
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+0:-+"(,!-$*/% 4&!(#-+4*"/%"("(2" ,!!*/'
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+*' "< ' * ' %' . ' 4' Y%*'
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' B'O I(' Q!0/% -& $*/% 40'*&"(#1":--*'%O@
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"% "/' 40%%-2!&-" 40" ' 604"&O-/' % +*-7/O O!'
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'"-/"'+0-('-+-%"'!/";-"/$0-%"2") 'S$O'%"@
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#"'",!"&,!" 26*("#-7/" #" (O/0-((0/2"9
J' '>$' '#0/(Q!0/#*/'0" # +-@
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6*/%"%&O7&*-'"'"%*/"#0/' 40'/'$'0/50-(' ' ' 4 &&
+1":6*'%O#" 2*/(!&%O%-*/'#160;-&"(7"/('S "
' &' ' -7' :6*'%"4"/%0.*-" ' 4*!"'(!9"%'
' /18 O '-"/' !-' ":6*'%-*/'(0.*-';-"/' +*!'-"
,!" #"/10.*-4*-/% #"'4&O0-(-".-."9 '= '
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&O '"%%'O-%"'f%,!'!%'#"#"#"!&"!"/"&O".*80/%"/%"!@
'-'' '/-."'(!'(*/'26"$/' (1":6*'%"' '4 '-"
> , 'O ' .!'"/"(%-(0/% ,!"-,!"$*-(# $-2-&*
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O O 5'

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#-(%-/7!-"' #"'2"#"' #"' -"!5 "% 2"&O' /1"(% 4*-/%2"/K
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%-"&&"' "% +*'0&"' é 1":-(%"/2"D#-8(-,!"' "%-/##4"/@
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+0'260/#-("(',!"' '"/$"//"' !/+070+/'*/' &"(' +0@
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#!0.0/2"' 10&-++-% ,!!" /' 022*'#"' -'&O'(-+4&"' ":-(K
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&O' ' I -'04&"+"/%' #%"' ("' %'("'!."'0.*-" &-"!'
02%!"&&"+"/%' 0/%,!"' "%%"&"%' ":-(%"'0' "' +*/!K
+"/%' /1":-(%"' 4&!(' #"4!-(' &*/7%"+4(' 1-&' /18'0.0-%
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,!- ' YI -.'"' !0/#910!'0-'2"((##!":-(%"'"' -@
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,!!"/' (1*22!40/% ,!1*/' ":-(%"' 9 ' = 9
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;"(*-/('#"'&O'.-"' '@ "&O-((0/%%*!%' (*/' ;%*/' "!$'
2"/%('&-.'"(' #"' '"/%"' ;' 4" !' 4'#('%*/%91":-(%"'
' A ' '= Y
'O I'(' O' 2"(%"' %O!&("' -/$*'+O%-*/'&"'
&!/#-' "/(!-.0/%' +*8' ":-(%"/% "/' 1*(%"& #"' &O'
-"'"'4'#('&O'2*!'%'&"' #-% ("'7"0/%' +"' #-% ,!"'9"'
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4"'+"%%"/%#"' .*&" "%O/%,!"&O#"((-220%-*/'#"(';'0/@
";-"(' /"' &"(' *;&-7"' 40(' ;"(' "4&*/7"' #0/(' 1"0!
' ?1 #e *.'*2' #"&&*';*'(' "%':* %'(' &-%"#"
+#+"'0#-20&,!"' :*40*"?'#*'+-"D.*8H2g -" E
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O 'D;@7<*@#1E'B' + $&%IH "("2*/#&-.'"' #!
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#"(' ('O"&-%"(' ;!'(#"' 784%"!' N -7' 1":*#"(1"(%
#-%' #" &O'7'0/#"' +-7'0%-*/' "%O/#0-('04'#('&O'
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'/'(1" %#-%'O!((-'#!0!%'(#+-7H-*/(' !' ;'g"(%
;'!%06'40"&O *'#-&&;'"'&"('(0-/%(' N&"(' ?*'+*/(J'
";O((#(' #"' 1& -/*&(' '*/% 022*+4&-'%*!"' ":#"' "%
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&"(' (;.;'- ('#"' 1;-."' ' >++)0 1'- '*'
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&"' %"'+"' #9' %6 ;%"' 7'"25' #"' ;*'(' "% #
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"'%- 20%(' #1":2!("' #1":"+4%-*/' *!' #"' #-(4"/("'
#;&+#('40"'!/'+;G%*2-/';'!/' +0&0#"',!-'044"%*';'
!/"' $*/2%-*/',!1-&'/"' 40'1%'"+4&-'#*-%'9!(%- ""#"'
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' :-!I' "' %!'O('&O' .*-< 2&"'" "% (0-/"'
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2"' +*%E'0.'2'&O'4'*4*(-%-*/' 7D9!-'"/$*'*"'&"' "/(
%' c f 'D;@7<*@+;@%'1E' ' ' "'+"' #"' 26-@
'!'7-"' "/."'("+"/%#"'&O'+0%'-2"
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8/*/8+"' #!":*+460&"
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$' O # & ?'D;@7H/ @';@(-*/E'B' ' "'+"'
#"' 4'O%-%4-"' ;260'7"' (*!&07"+"/%' :*/ 'O%-*/'
#!('"'.-2"' +-&-%0-'"' :*/ 'O%-*/'#!-+4#%('J' /%'"@
$*%"' '"+4&02"+"/%' +-&-%0-'"'$-O%' 40"' %O%' +;+"'
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9!":*/;'"'":2"4%7 O!' $*%!' "%' O!' 2*/#-%-*//"&>
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"%' ;O%' 7 '# *60'7"'' 7'6*' '
"% , '$O'#"O!
%' O 'D;@7<*@/-@'$-@<1E'B' ' "'+"' #"'
+?"2-/"' *&&!%-*/'/*2%!'/"
' ?'1 H*.(-4;:/5' #"' ' 6*'(' "% 9.(-4*2'
(*/7"' 4*&&!%-*/' "/' (*/7"
O 'D;@7<*@$%O&@+-"E'B' ' "'+('
#"' 26-'!'7-"' '*%-"' #" *"-&';*'(' #"' *';-%"' 40"'
"$$"% #"' ,!"&,!"' %*-(*/
' ?'1)YOO4*P' #"' _g' 6*'(' "% $ *;@
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'O I(' - 4* *-"#!' &-"!%"/0/%#!' ;0-&&- ":4-'"'0' '#*//' '%'.!'4'O%"' "2"(%" 0+*!" 4'*4'"+"/% *'/'+*'%"& /"4*"'*-% #-'" 4'-:'&"#*!:' ("/%"+"/%' O 7'0/# .0&*!" ,!!"&&" ":4-'" U":60&"J' S$*#!%' +(' I Y Y' #0/(1 'O I(' %$-/-'O 2"(%!-' 4'"+-"" &-.'" O!"%'"4?'#!' %'#(6'"%-"/'*-' #" '0/2"' 60'&"(&" -"/' 0-+#' &",!"& ":4-'O (O .-" "/' (*/' 6*(%"& #" 0-/%@ 0!&) 0'-(' !* =' 0 ':.-I'(' O$!'-"#"(.&4"'"(":4-'" 40" '0%%*!2;"'+"/%#!/' '0+"0!"#" $*!%"0!' 0/%' 'M 'S"&!8#"+0/#08(-6*'(&O7!"'" %*!%"(*/' 0!2%*'-%# "(%*-% ":4-'#"' '&' A' Q!0/# /*!(("'*!(":4-'"<'2" 6!26-"' '-('!'YM' !%0/% ,!" +"(8"!:' 4"!."!" '"2*7/*-(%'" 2"%%" ;"&&" (0-(*/' ":4-'#" ' ' ' DaE

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2"(40'*&"(' " '-'&, ' M)' S!"/%"/#(2&O-'"+"/%2"%%"":4&-20%-*/'"%9" &O'"@ 3*-(' ' < ' @.-' ' :4&-20%-*/' +*'O&"' /%"'4' %O%-*/' +*'O&3 #!!/' %":%" ,!-2*+4*'%" !/' %*!% O!%'" 0"/(' 6*+0(CO&&"-('902*;-/'0/7&O-('$-% -+4'-+"'' ."'(&O $-/' #!'O I(-?"'[!(07"#"(4' #-20%"!'('!/"'":4&-K 20%-*/' +*'O&"#"(!&[+*'46*("(#1 .-#"'*/' -(' 9 " '+')'NN I' ,!-0-#" ['%'*!."' &O 20!("'&" +*%-$ #!!/" 26*(" #-$$-2-&" ['2*/2".*-'' "&O +"#*//" 1":4&-20%-*/'#!!/' $0-%#*/%9" /!0.0-(4!"/2*'"+""/#'"2*+4%"' ! ' %&* '$NYI'S!(K %-$-20%-*/'' 2&O-'2-(("+"/%' ?"#*//"'"<@.*!(1":@ 4&-20%-*/'#!!/"%"&&"2*/#!-%"3' /" ":4&-20%-*/'"/' $0!%@-& ,!0/#*/' (10-+"3' ' * ' A' *!(,!"&,!"$*'+" ,!!"&&"" /'40'&"'!/"" ":4&-20%-*/' (. " 2&O-'2-+0 6*/%" ['1-/(%O/%' 'A ' ," 1 '-'(' &&" .*!&!% 0.*-" !/" ":4&-20%-*/' 40'%-2!&- '"0."2?+"#" ?*/%"(4['' 'A ' ' A ' '4' Y' #0/(' (-&"/2"' (!(4"/#-%!/'"/%'"%-"/' ,!-4"!%@ %'" O!'0-%2*/#!-@ ['!/" ":4&-20%-*/' 6"!"!(" ' :-: M' % .*-'!/"":4&-20%-*/' 0."2 ,!"&,!!/'&"$*'2"'" ['":4&-,!"' ("(-%"/%-*/(#0/(!/" 2-'2*/(%0/2" ,!-.*,!" SO-'"!' /" ":4&-20%-*/'0."2&!-'&(*/% "!"#"(":4&-20%-*/('!/"/'NN +0/#"/' ['%'*!."' ,!"&,!!/' 1":4&-20%-*/'#!!/' 40'*&" #"+0/#"" #!":4&-,!""!/'4'*4*(,!-&O &%"/'!'%", !-((-& /1 %O-% 40(":4&-,! '40'O%%'O&% *$$"!/(O/%' NN '(" #-%%' (@(*!."/%O!' 4&!'-4!' "-7 ",!"%&-! 26*("(""Y!O#*!%" 6&O"%O"!'#"(":9H-20@ %-*/('N9 I /%""'4' %O**/'40"'&O 40'*&""'#"'"4 ("/@ %O%-*/(""%26*("("($-7!' "(' 1":4&-20%-*/'#" &O (46 1":4&-20%-*/'&O'%O#!2%-*/' &O'0!' NN MI' "'+" #" 2&O(("' 1":4&-20%-*/'&O'%O#!2%-*/'*!'!"O#!!"O!' "" ."'." .*-:'#!!/'0!%"!'' 04' (4' 40'O%-*/'*!'['&-."'*!."%' ,!-#-%#*@ +-/""#0/(&"(2&O(("('21"(% "/&-20%-*/' 9 'A' .-''!'R' ?' * -/' 044'*!."&O 7'0/#(!$$'07"' /* ' >,/ 'W '4'YY 40'*&"(' ' 4&-,!"'

$' O 'D [@(4&-@(-$E' '+' "'+"#"40& *@ 7'046-"' *%,!-/#-,!",!!!/'*!.'07"'(%%%"'+-!' "% ,!" */'%'*!." ['&O $-/' #" +0/!(2'-%(&O%-/(#!' +*8"/' [7"' 1":4&-2-%"% 1-/2-4-% '#$' O% #!'+*8"/' [7" 7" *''$-/-% ."';"$- +'#!'&O%-/' ? ,'$-/-'%-+-/' '#" 7" '#4&*8"'H%"'+-/"'' ":4&-,!"'D.*8' 1V C @

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O &Q $-' f 'D [@(4&-@['["E' " ' -I' *!%*/'O #*// ' 1":4&-20%-*/'#" /'%":%"%*;(2!" ":4&-,!'40"2" (0.0/%2'-%-,!"'Q!0/#*/'0!'0-%#"K 2-#" ,!!-&$0!% 4'*/*/2"' &"((8&&O;"(" * ' ,!-/"-%-*%,!"% /1080/%4*-/%":4&-," ,!" "('2602!/' #" .*!('.*!#'O9*!-"#" &O .-2%*-"3' 0 d Q!!*/'O$0-%2*//O%%'"' "(+%-e'#"(O2*/#!-%(":4&-, (40" &!-@+ +"'NNYd "'+"#" 7'O.!"'Q!- 40'0&% 4&!(*!' +*-/("#-(%-/2%' "/4['&O/% #!!4&!(*!' +*-/(#1 &*-7/"+"/%* '!/'+;9"% "(%#!' #".0/%#' %O;&"O!

O Q 'D [@(4&-@[E' 91":4&-,!0-(' /*!(":@ 4&-,!-*/(' .*!(":4&-,!-"<5 ,!"91":4&-,!"',!"/*!(":4&-,!-*/(' ' O'NN I' "/#" -/%"&&-7-;&"#"2"'1-/% *-9"%-*/' 0/'2"%"&&-7"!/' 9 ' '/"(%*;(2!'' ":4&-,!"'!/' 40(07"' #!' -+ '#" &O%-*/' '-/*(2*!'!(0.0-%"/%+ +"(#@ (-('S" /10!'0-(40(;"(*-/#1 ":4&-,!"'+"(("(*!4-'(' ' '&!' ' Q!"&&" / 2"((-%'8' 0@%@-&' 40" ":0+4&"' #!":4&-,!"2" ,!!*/' "/%"/#"#!'40" &"' +*%

6*++"'/" (0-%@*/' 40(0(("< ,!"&&" "(% &O 26*(" ,!!*/'.!"%#(-7/"'40"2""%"'+"3' 0 '40'%' 0' ' ' *!."/%' */' (1"+;0"O((;"0!2*!4' ,!0/#*/' "'(7" "/' ":4&-,!0/%"!'40'"K 2-('-%' (@@-& ,!!' ;&*-%!/"/'#"($$-2!&%% -(' ,!![;&-"&#' .!&70-"' '0' YI 0."%' j ' '0%% (-7!&-"' -/2*/2"'.0;&' :4&-,!"/'46 /*@ '+' *"'Q!" ; #"":4&-,!"/'$-/'#%"'*!;&"'6'9" &O '#!%' 0!%'#"(-/%"/("+"/%"&&" 40'%-2!&-"' 4'*4'"46-&-(*(4"'

0/2-"/(' " '9 ' ' 4 '26' ' O +0@ /-" #" %*!% ":4&-,!"' ,!" 10+*!" #"(8(% +0(0.0-%-/%'*#!-%"'" ' < ' ' ':>, %'+'4' 'Y'#H'M *++"/%#2'-"%*!@ 9*!'(&"(4'*#-7"("%/" (!22*+;""90+0-([&O"%"/@ %O%-*/' #" &"(":4&-,!"'3' '= ' / >,/ %'O '4'M '#0/('NN '("#-%#0/(&" + +" ("/(0."2!/'/*+'#" 26*("4*!" (!9"%' "2-":4&-K ,!"4*!" ,!*-'-- /1"(% 40(."/!' *-&[' ,!-":4&-,!" &"!" O#+-'0%-*/'4*!"&!-' NN 1":4&-,!"'":4&-,!"' ['(*-@+ +"'S" /'4"!:' +1":4&-,!"'.%'2*/#!-%% S" /" +1":4&-,!" 40(2"%%" #-$$ '"/2" +-$/'/#"' 2*+4&"$&-!" "/'#"' 2*+4&"@NNBI 0-'" "/%"/#"' /"%%"+"/%' *&O'" :4&-,!"' ":4&-,!" +-"!-&" $*/#"#"%" &O'4!(.*!('(*!$$"/(0/%"' /' (0/("/%"/("' .*!'(*!4*!"!%"(0!%4!:'&O!'-"" ":4&-,!" 4!"(' Q!-&-& .*!('(*!4'!'-2*!' 4&!(/%" #0/(&O 40'%-2!&-" 4!&-2@ +-/"&&-7" ":4&-,!" 40'!'0!%"" 0-'"2*//0%'O-" (#" #-2"/ ".,!"&$/&-!2'*!/"&%"+/@ S" #0/(&O%-*/ /0-((0/2" ,!-" 3 NN >H'-+"' +0@ /-$"(%"/%(-/&-2-%"'4"&O-/%" ,!"%"@+$%" 2*!'!/"#"#-"('&" "#@+ #0/(4'*4*(&"' 4'"/%"' /' (0/%4@' #"' ' ' %@ ' 4*!'"' '!4*!'* 2" :4&-,!"'3' %6*' ' ' O9*-"%&"(%'0/(4*'%"* ,!*-.*,!"' 0/ 2"%%" 0!%'0/(4*'%"' 2%"/%%"+"/% %O-% ":4&-,!"&O ":4&-,!0-"'#"

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":4&*'O%-*/(#"('*807"!'('0/7&O-(#0/(&O *!."&&"@ * 0/#"-& 1' "26"'26"(2-"/&-$&,!"-& 2%-*/'#1":0@ +-/"'O%%"/%-."O-"/%&"((8+4%#+"(#1!/'" +0&O#-"' #"(*/#"'!/'4&O-"'!/'!&2"'"

'O I'(' :4&*'O%-*/' != $- ?' O%' 7" '"4-*'O'"":4&*"' %' O ? DS[@(4&*@'O@%&@."@+0/E' /' /'":4&*'O/%
'# 9 ' >7" / '"%'&"(!$$&:"
1 'D [@(4&*@'M' 5' " O
*!."&&"@ *&&O/#'"/2*'"4"!'":4&*'#"40"ER(.*80@ 7"!'(' -7' !9"%# 9['":4&*'#
O 'DM[@(4&*@'#E' "'O'N#I' O'2*!'-""/' ":0+-/O/%' "/'26"'260/%)'##2*!.'-' '.*!&!%":K 4&*'""2"(2*/%'%"('NN O'2*!'-"#!'"70'#' %,!O/# (!"2"%%"+"'&O(#"26"'26"(O'*!%"' !'$-'+OK +"/%(4&"/#-#"-&":4&*'"&O'*!%"' "(O(%'"(-/@ 2*//!('(18 ."/%-'("(8"!:' O'+'-.' Y' I' -7' :4-*""!/";-;&-*%6H,!"'&"(.-"!:'#*2!K +"/%(' Yd :O+-/"'O%%"/%-."+"/%&"((8+4%#+"(#1!/"+0&O#-"5(*/#"'!/"4&O-"'!/'$-(%!&"
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."/#'O-%#!''O#-20& O/(2'-%' ,'2*!&"'"%'O!'O-%' 4'-(&"("/(#"O&&"''"%'O."2 7'O ""O!'&*-/
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'% ?@ *8' O
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@@'M ?' *8' O
O 'D"[@(4&*@<-*/5 "/'."'('#" ,!O%'"' (8&&O;"(E'8' 'LL 6 2%-*/'#1#2&O%""'O."2!/';'!-% -/(%O/%O/#'4'*#!-%"40"!/"-/$&O++O%-*/';'!(,!" *!'40"!/"##2*+4*(-%-*/'(4*/%O/#"*!'40"1":@ "#(#"%"/(-*/'#1!/".04"!'' 1":4&*(-,/'#1!/"+-/"' #!/'.*&20/' /'":4&*(-*/'#"70<' Y*2%*;'"'[!/"6"!'"%#"+-"#!'+O%-/' 1O-'O.O-%#%##;'O/&# 40"!/"&'O8O/%".:4&*(-*/5 ?*"%-"'O.O-& ;#-'&"(='"+&-/'/1":-(%O-%4&!(' # ' "'-:'(
:4&*(-*/($!&+-/O/%"(' ":4&*(-*/(#"(260!#-#5 "(['.04"!",!-#2&O%"/%2*++"&O$*!#"",!- /1*/%&-"!',!1O!'"4*('21"(%@[@#-"O4'#('O!%"+4(#!O"'#%4&!('*!'+*-/(4' &*/7#'7#/#'O&"+"/%O!' +*+"/%*['1*/.O'"+"%%"'&O+026-/""/'+O'26"' "%&"'(,!"'40"(*/20&+"2*++4&"%'&"7#/#"%"!' /"$O-%"/'-"/'4"'("/%-"1#.#/"*/%NN d 2%-*/' #1#2&O%"'"/'40'&O/%#1!/"40((-*/'#1!/"O##-%-*/' #1!/"#.*&!%-*/' ?#'O!"#"(*!'"/'%'#!/"(/#2"((O-'"(%,!-("##."&"44"/%#1O!%O/% 4&!(,!"16!+O/-%#"(%4"'$"2%-*/'/#"5-&" "(%#1O!@ %'"".-*&"/%"('"';&"(,!-("/%4&!(#.*&"44"/(#O/(&"(%"+4(#"; O;O'-5"&&"(*/%"!'"&&"@ O!((- &"!'(":4&*(-*/(+O+"/"O*:' 40((-*/(#*!2"(%&"(O+#&-*"/%/%' O ' ,'%!I' ,'$& ' / &&"%"$$O4*!'%[/%"/$-*' /*/'&O .-*&"/2"' +O-(1":4&*(-*/'#"(O2&#"'"4! -"-$'
'! ,* NYd ("#-%#" 1O440'-%-*/'#1!/"
V +O&O#-"#4-##+-,!"*!2*/%O7-"!("O!+- "O!!/" 4*4!&O%-*/' 1":4&*(-*/'#"&O$-#.'"9O!/""['O-/%@ 0<O-'"'/' 'O/2"
'#$ ' O%' 7" '#" 7" F '(!4-/' #" 7" '*!' 7" '#""('"%" , ' $'O44"';O%"O."2';'!-%D.*8' @
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O%' 7" '#" 7'"%" "
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?' O%' 7", '#" 7", ';-$$"' #""I' ", '+O',!"#1!/'4*-/%D.*8'4*& E
%' O 'D[[@(4*@/O/@ -@#&'#@1E' *#8'-/I' "'+"#1O&7#;'"Q!O/%-%# ":4*/"/%-"&&"' ,!O/%-%#,!-O"/'":4*(O/%&1-/2*/!"*!'#O.O'-O;&" ' !;(%O-%-.-"+"/%"/'":4*/"/%-"&&"'N ,!O%-*/

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%' O 'D#[@(4*'@%O@%"!'E'(+ "'+"' #"2*+""2"' "&!-'!-'":4*'%"#"('+0'260/#-("(' '& ' O;'-20/%'2*++-((-*//O-'"":4*'%O%"!'
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O 'D#[@(4*'@%O@(-*/5"/'.."('#"2-/' .*!('40'&"""(%&'"""(%%"+"+4*/'!/"(.40":4*(#"' '9 , /'-& ' '?-('O.O/%1"/%"'"+"/%"/'%#O/(&O+-(*/(#O/"+O-/"' %!O-'" (*!('&"("8"!:'#!4!;&-2' "/' 40'&O/%#1!/"'"+*/(" +"4*/2"' 9!/'"+;O/&"44"' !%4/'O#-'#O!'#!*/'8"!'(!&&"'N;" %!O-/'$O-'"2"!-'*+"1'2"'(*/2*'"5'!/ ,!4-/'"1O-'"O!"%"'"+-/O%-*/ 1'/-/+0/"%2"'(O"8"4*/2%!"&&"+"/%#-(-+!&#" 4*!'&"#"2"&"'O-/(-%*/"/4'-(&"$O-%40 #*!;&" ,!"&*/40-%' "%"2""%O/%"/#-%&,!"&&"(""40'- AM)' &!('"/40"'(4 *'%-" 4*!'(#&"2*/2&!(-*/4&!(5 4&!('-&(40"%'O!%O/%%' '4*2-$'%O!""*'(4"2%O%%!'"/#'#"'(*!'4&!(#"44&!' '4' 4&!"4*' 2!/%'"5 4&!(&!(%!&!"Yl'*!'/#1!/'2"'%O-/-/%"'"%%-!'(O-/)'0O!" (#"'O!'("&-' (40&-"(";-":4*(#' O/(!/'26"@ +-/'++/%O/%(O;&"//"!:' +O&O-(#' %#"%*!'(" 2##"(O!'("&-'&"'**/,!O-%"!'-(*/&"(&-"/(40&-'"1O7-(#"%O-%;"%!%-/"+O2%*/&-7-**/*+"%*!'*(2!'"'"(%&"'2*/#-/%O% (*++"&4"'/*&4*'"(O"%!&"%"%(*!'(&"'O2O-/ '07'"1":4*'%O%-*/' ' ,/ ' ' /' 9!7"O ,!!-& /"$O&&O-%4-/'"(%'"'4*/"("/O+"&O"!:'O44'"2-O%-*/ 4"!&"+"/%,!"!-(*'%O%-*/':-*/'"(%' $"'/(4'O(-(%O/" +"4*/2+$"'$*-/"O!"'40'O%-"(!4"!'O/(&O/%-"&"/'#'(4"2%O;&")' 4*!'#"&O!%O/%4&!(&*/7%"+4(2"&&" "/40#"'/- "!&"+"/2"' ,-&"4*/% !(4-'&"(&O44'(*" 1":4*'%O!:4-"!'"/-

+*%(#1!/'"46'O("'N I' "'+"#"+O'-/"' :4*(O/% #"260'7"'#-$$#'"/2"'"/%'"&"' .*&!+"#"&O20'#/'" #7"'%2"&!-#"&O20'#"'O!'%-'O/%#1"O/'"/'260'7" G=f=^ f' $-' D#[@(4#@<#' <#"E' 4*'%' " $ I' ?-(#".O/%&"('8"!:' "(%O;&"O!:'":4*(#([&O .!"#/'4!;&-2' "(+*'2"O!:'$O-%((*/%":4*(#(O! 4!;&-2'4+-#O/%4&!(-"!'('9*!'(' # ' DAMA' >,/ '%' :.'4'DMM'#O/('S" .;'-&'8'O',!"&,!"('9*!'('&O'&"%%"'":4*(#"/'."/%" O!:' -"'-"(' ?' = '&3 'GM*2%'DAAM' 'Q!-"(%"/'.!"' /'4'-/2"(-":4*(#['%*!%1!/-."(;"#"+/"'-"/'O!:'(4"2%O%"!'(U#O/(("(#"'/-"(+*+"/%(J' ',' ' ' ' 1"/#'*-%*['9" .*!('40'&""(%&"'"+*-/("":4*(#' '9 , /'-& ' ?-('O.O/% 1"/%"'"+"/%"/'%#O/(&O+-(*/(#O/"+O-/"' %!O-'"(*!('&"("8"!:'#!4!;&-2' "/'40'&O/%#1!/"'"+*/(" *+%'D"/'2"'21"-&'+;O!+4&"'1"/#"&%&&%' "2*'4(4"!(!'(&"?"8"' 'O!%"&*+"(%'1O8'+-%"4*!&(*!'4"/"&*!'4*+"%'"/2"-"/'*%!'-%-/"40O4*'"4'"#""""(%%!'"*-(4*#*"(O!!"4""/'4-"""40'"""4"*!'# 4*(#' d ;O/#*/#(!"&O.*-"4!;&-"!H /' "/K $O/%":4*(#'#"/%&""+#"-%"#"&O%"'4'-:5 4&!('-&(40"%'O!%O/%%' '4*2-$'%O!""*'(4"2%O%%!'"/#'#"'(' ' 'Yl'*!'/#1!/'2"'%O-/-/%"'"%%-!'(O-/)'0O!"

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#-'" #" +"%%'" ! /' +"+;'"" /'#'*-%" &-7/"0."2 ! /' (0%'"' 1":%"0(-*0 #" &0 +0-/' #" 10.0/%@;'0(' #0;'0(' +*!."+"/ '40"&"(,!"&(' &0 +0-/"(% +-(" "/'#'*-%" &-7/" 0."2 0.0/%@;'0(' 10.0/%@;'0('0."2 &";'0(' &" ;'0('0."2 1#40!&"'NN ""+"#" 26-'!'7-"' 2%-*/'##%"/#'"!/' +"+;'" '022*!'2-'40"!/"$'02K %!'"*/'!/"&!:0%-*/'NN ' 2%-*/'#1#%"/#'"!/'+!(K 2&"4*!'" ":"2"'' !/' "$$*'%' 4*!" *4#"" ,!"&,!" 26*(" ' -' .*!(2*/(-##'"<2*+;-"/'#" 7"/("/%'"0% #0/(1":#2!%-*/'#"2"(+*!."+"/%(U#"(+026-/"(J' ,!"&&" $*'2"#";'0("% ,!"&&" ":%"/(-*/'#" /"'$(-9(8' "+4&*-"/%' !' 1" 9' NN ""+"#" +!(-,!" $$*'% #1#20'&"+"/% #!'4"%-%#*-7%4*!" 0%%-"-/#'" 6 2"-%0-/"(/*%"("&".#"((!" &"(2*'#"(#!' .-*&*/' (!'&".-*&*/2"&&"H!'0%%"-/#'" '!/"$-"'2" +09"!"' (0/(,!" &0 +0-/' ,!-%%" (0 4*(-%-*/' "% !%(" $0-% 40"":%"/(-*/' NN 0 +0-/' "("(#*-7%('*!% "0!2*!4 #":%"/(-*/'!/"7'0/#":%"/(-*/' -&(4"!."/%"+@ ';'0((" ;"0%2*!4 #" %*!26"(#!'2&0.-"'NNBd 0/(&" &0/707" .!&70-'" -&(("#-% ,!"&,!"$*-(#!' '"&#26"@ +"/%'#" &0#-(%"/(-*/'40" ,!"&,!""$$*'%' #!!/'%"/K #*/'#!!/'&-70+"/%' 1":%"/(-*/' #!/'%"/#*/'NN d ' "#-% ,!"&,0"$*-(4*!" #%"/#!"' :%"/(-*/' "/'&*/K 7!"!'' "/'&0'7"!''"/4'*$*/#"!''NNRd -7' 22'*-(@ ("+"/%' 0!7+"/%0%-*/'@ 1":%"/(-*/'#"(*/'0!%*'-%#' :%"/(-*/'#" 4'-.-&#7" /' 40"'# -/2**.#*-"/% /" 4*!.0-% 40("+4#26""&0 2*+407/-"0/7&0-("#"#*/@ /"" !/"'7'0/#"":%"/(-*/' (*/'2*++"'2"' $ '4;% +'Y' 2%-*/'#1#%"/#'"!/"&*-' !/'0'K %-2&" '#"(*;9"%(,!-' /18' #%0-"/%40(#0;*'# /#!(' 6*("',!-'/"'4"/%'"2".*-'#1":%"/(-*/ 0*'0 '#0/(- '"(%2&0-", !""2"(#/0%!(@2*/(!&%" /1#%0-% ,!!/'" 1":%"/(-*/'#" &0 &*-' 4044-"/'/" ,!-' #0/(&" +#+" 20(' 0.0-%022*'## 0!:' $"++"(&"((!22"((-*/(,!-&"!" #%0-"/%"/%##$#"#"(40" &"(#%'0/@ 7"'(' , C' ' ":: .9-' 26' !/-,!"'NNMd ""+" #*'&*7-,!""%#" 7'0+ +0-'" 8/*/8+" ##%"/#!"' 0/(!/"4'*4*(-%-*/' 10%%"-;/% (!044"&&",!"&,!"$*-(&"'7'0/# %""+"' 40'2" ,!!'0'4&!(#1":%"/(-*/',!" &"(,9"%'2!"(%@ @H-'",!!-&(1044&-,!"' !/'4&!('7'H#' /*+;'" #1*;9"%(NN ""+" #" 7'0++0-'" 2%-*/ #1#%"/#'" &0(-7/-$-20%-*/' #!!/'+*%' "("/("40"":K %"/(-*/'%-"/%&" +-&-"!' "/%'"&"("/("4'*4'"%&&" "/"/(7!'#' /'$"'"0!((-' #!0'7"/% !"/' 20(("%%" -' "%2 0&*'("$"'"(-7/-$-"'40"":%"/(-*/'70'/-" #!0'7"/%" 0!'&-"!'#"$"'/!' '*4"('40'%'!'0'%'%' E /'#-%#0/(!/"+4&*-0/0&*7!"> "("/("(%-+" ":%"/(-*/'/1"(%,!!/'" ":%"/(-*/'#" &0'!"/("(!2K 2"((-*/"% (*/'-++"/(-%# (0/("":%"/(-*/' 9 ' NN:.-!'(0 2;*#""#"(+;&" 4*-/% '#"(/"'$("#" &0+" 0-/'4&!(%*(*!'#"("":K %"/(-*/(*!'#"(2*/.!&(-*/(#!-2"&&" 9 ' -(' 0'*%!&"2*/%-"/%&0 90+;"" "/' #"!" ":%"/(-*/' 0' .' YM' 10+"'"(40/#!"/' %*!%"(&"(40"%-"(#!'2"4"("/%-"'"/(*8' /1*22!4" 4*-/%#"&-"!'40" ":%"/(-*/'2*'4*'"&&"' -/' :.' '#$' '*."/,' 7 ' "(407/' 7 -%0&' (%"/(-*g"5 #!' &0%' 7 ' 7 (!4-/'#" ":%"/#"'" #%"/#'"D.*8' $- E %' O 'D @E D-@/#[@(%-/@(*E' 0#.' 0/(%*!%" (*/'#%"/#!"' -%" &"(4- 2"(-/@":%"/(* '# $ ' 0%' "/' "%' 7 '#%"/#!' 40'%-@ 2-4" 40((-$#" 7 '#%"/#'" 1 'D [@(%#@/!@0@(-*/5"/'."'('#"(-:' (8&&0;"(E' NN d 2%-*/'#" '"/#'"%#/!'+0-7'"% $0-;&"5 '#(!-%0% #" 2"%%" 02%-*/' 1":%#/!0%-*/'#1!/' +0&0#" 40" !/"&*/7!"$-"."'' */' ":%#/!0%-*/'"(% ":%'#+"'NNd "'+"#" -7!'"#"4"/@ (#",!-'2*/(-(%"'(!;(%-%!"' &0 .#'-%0;&" -##"#" &0 26*("#"/% */' 40'&"' !/" -##" #!' +#+" 7"/'" +0-(+*-/('$*'%" ' O (*/(*+4%-/'"%":%"/(-/0(-*/'#" %*!%&"2*'4(#' 1 ' M '#$' 0%' ":%"/(-/0%-*/'+'#" 7 ":@ %#/!" #2&#H6#' 'D [@(%#@/!@#' #"J'4*'%' " ' d "/#!'%#/!' '"!#!'$0-;&" /" 0'+#" ":%#@ /!#"' / .-(07" ":%#/!#"' / .*80-% 2"%%%" +0&6"!@ &"!("$ '026/#J'#"/%%*/(&"("+"6'"(":%"/!#("(##$-7!'0-"/% "% (" 260/7"0-"/% "/'0'0-7/#"' > 9 ' O ' 0 (!'4'-(" "(% ":%'#+"/' " 9"%0*% &"(8"!:'(!" ?+" #" &0 0&&-#'" ,!!"&&"(10%%"*#0-%' %*'!."'260/7#"' ":%#/!#"' 40" !/'%"& 7"/'"#" .-" U&0.-"#" 0'+#&-%"J -(' A ' A 4' MY' #0/(4*! NN .*-"&" .-(07" ":%#/!#' 0.*-"&" .-(07" +0-7'"' !"2/0'#"/ NN I (#'"!-/# 40",!"&,!" 26*(", !-'2*/(!+" &"($*'2"(' :%#/!#" #107-%0%-*/('#10;(%-/"/2"(' #" ."--&"(' "&&" ("+;&0-% "/$-/''#(*&!" '"."/-"(!"' "&&"@+#+"' '"2*++"/@ 2"'(0.-"*'#-/0-'"' -'9'0*!(('# ' .-'%%'NNYF -7' "/#!'+*-/#'" 0-(2"-%" +#+"7' 2" "/'+*-' #-@ +-/!#" % 40" +--&" 4#26#((0/(2"((":%#/!#"

2* '0 4' 5(N' >2 34.= '?92+'.:5 B; 3:5' H428 48<:83:58 42 :98S '<:9B828 G 3 B4810 <98' ?9&+25 + 3 < 882B < B+ 0 33+'<+98 8 ;<+2 23+' <+98 2A345942 ?9&+82B 3 <:88G+20 ')) '0 FC : IB $ D [@(%#@/!@#E' 91":%"/!0-(' /*!(":@ %#/!-*/(' .*!(":%#/!-"<$,!"91":%#/!"' ,!" /*!(":%#/!-*/(' ,!" .*!(":%#/!-"<' .'0NN-I' "/#" %#/!" "% $0-;&"' "#%0-% ":%#/!#" 40" !/" &*/7!" 0;(%-/"/2"' !)9 ' A ' M" ' NN 6 -7' +*-/#'-" ;"0!2*!4' *!" 4&0-'"' -&U&" 4*#%"9 0 ;"K (*+',!"&,!"$*-(#"'";0!((""' 1#2&0% #"(;"&-"(02K %-*/(' "% #1":%#/!"' 16*'""!" #"($!/"(%"(' ' *' f' -"!' /" 4&0-(" ,!" 91":%#/!"' ,!" (;-"/@ $0-%(#"+-&*'"%#'WW' *!((' ' !' M' 0 '#$&":-*/' ,!" 9" $0-(-2' 4"/% ":%#/!"' +"(%*'%(#0/(&"!'("$$"%%(' +0-(2"(% "/' &"(077'0.0/% #0/(&"!' (*!'2"' ' ' :-' :*/'+-&*'#' "+;0'@ '0((#!'/"40"'-&&" 2*++-((-*/' "% /"(0260/%2*+K +"/%(1"/"02,!-%%"' 6*//#%"+"/%' % 260 #!"/' ":%#@ !"' 1-/(!-%" "/%'0/($*'+0/%2"%0'7"/% "/' /0%!'" #"4*'*.-(-*/'&*' 1' :/'NN ;(*&!+"/%' "%%" 40"%(0';"(*-/#"#"'6#%*'-,!" 4*!" 4"-/#"(&"(40((-*/' 0;"(*-/#"#"4*!(*/#"(%'!; 2*++"/("(!&%"' ##&-;#@ '""':07#""*!" ":%#/!"' 2*/(!&%"' ##&-;#@ '""':07#" "/'&0'7"!''"/4'*$*/#"!''NNBd 1":@ #/!"' ' $0-'"4"%-%' %#/!'Q!!"(%@2"!!/' .*-: '0/ (*!$$$"' ,!-(" 4"#"/ 10-'5'9"' (!-(!/" .*-: '!/'2'-' (-.*!(&" .*!&"5 (0-/%S"0/'(1":%#/!"' 9!(,!"@&' ' A /' ' ' 4 I' ' "/' (*!'2"' 4' ' '&0 !P.'-') '8*H' &2&0 #>)' ' '/1 ' 1":%#'-"!" "(%2" ,!-'%*!%#10;*'#(0 .*-% (0-(' 40" *"-&>-&" "(%#!!/' ":%#'-"!" 07'#0;&"' "6*'(#-%,!"&,!" 26*("(#" 4&!(5-&'2*+4'"!# /*/@("!&"@ +"/% 0440'"/2"":%#'-"!'"+0-(0!((-'&"(7"(%"(' 0%%-%"' &0 +0/- '"#" 40'&"'"%2 ' O I(' -"!'/"(10'"(%"4*-/%%0%!0%' 04K 40"'/2"":%"'-"!""#!;-"/'' ,!!'&0 4!'"%%"2*!" ' $ ' AM' 84*2'-%"("/' ":%"'-"!'"%-/%"@ '-"!'"+"/%4&"-/(#!*'7!"-&"%#".*"/7"0/2"' AA' */'4*!'%0/% ,!"9"+" +"%%%"/'4"-/"4*!" +0-/%"/&" 2"%%%"/#46'#%-,0"J' ' JaY '#$ ' '*."/,'"% "(407/' 7 '-%0&' '#!'&0%' 7 ' ,!-' "(%!/' #*!;&"2*+ 40'0%-$'4/-(,!!-&"(% &"2*+40'0%-$ % 7 ' ,!- "(%&!-@+#+"$*'+#"&0 4'#4*(-%-*/' 7 "% #!(!$@ $&:" ' ,!-' "(% &" .(4*5'7"2' ' 0/(2'-%' "%,!- (":%' '&0 2*+40'0-(*/' 0/(7 ' &" "/(2*+40K '0%-$ #" 2" 4'"+-"" (!$$&:" #%0/% *!;-#'*/' 8' 0 09*!%# 'D.*8' #? # #%#H&D#[@(%#@'-@"!@'"@+0/5 .*8' 1 # @' /' f' ":%#'-"!' 0!'#"6*'(' "%%" +0-(*/'"(% ;"&&"":%#'-"!'"+"/%'NN -7' '."!%,!!*/' &"2*-""6*//#%"6*++" +0-(-&/"&1"(%,!!":%"'-"!@ '"+"/%-' ?0&6"!" (-'/*!(/" 6*/*'*/(,!":%#'-"!@ '"+"/%-' '%(%' /' ' '4' 'O I(' "&!-,!-(""'00;(%"/!'#"%"0/(K 7'"((*"'"-%"'-"!'"+"/%0!'0'(0%-($0-%0!:'&*-:'4*&-@ %-,!(' ' $ ' AM - ' ?'>7 F '"%&" ($$-:" $ O $- & D#[@(%#@'-@*@'-@(%E' ' ""+" "'#46-&*(*46-"20%;*&-,!"' 6-&*(*46"0-/(-#-%('40'K 2" ,!"'("&*/'!:'%*!%"'%*!%"4'-/2-4&"'%*!%"' .#'-%# ."//"/%' 6*++"#'#"6*'(' 8/*/8+" %'0#-%-*//0-(-%"/'40'2"' ,!" &0"0/7"+#"/ .-"/%" &0 #!'-.-/" #!(-.-(0%" 0/(!/'(("/%%(%"% "-%"' '-"!'"+"/%"#0/("(*"(/#"("(46-&*(*46"("((*"(-"(*"(#6"(%"(*"'(@'"/%

8*H') ' ' 1# ' ' '59 5.2 283 3B48*<29 ; B?9420 <9 8?92 928 429A E2BG2852 4 4B253?92< B+2'<B4 A2 :7' 4IP<:9B' 3 53:5E:3?92 334592B 8J5 +2 829+2 ;253 ;:5K 4B B0 23 2A34592B0 ;:54 B G2 9.:9<' 9 B28320 25.2 82580 334592B 32940 4 58+2+ 5J J2 .392+0 '82 89G83 392B < B3:93 '2A34592B ' O I B' 1*"-&0;0-((#(!"$02":%"/!#" # 0 ' M Q!0/#-&("*"/%%"/"+"/%":%"@ 592B+'3B 58JB288:5 42+'+:R ' '$ ' C' #:;;2 42G:5528+233B280 ; 8 3:93 2A325940 < B' 32428'5 39B2+2.:;<+2A :50 23< B3 2 42 &23942 0 'A9A ' ?' '*."/,' "%"(407/' 7 '-%0&' '#!'&0%' 7 '#"(' "% ' 4"%-%- %#/!'D.*8'2"+%E (" * 0,' 'Q *834*B 29B0 B 29*B&' 58 +'E2B8 .3:5 49 AE96 8 42+20 2A34B 29B 283 42?9 * 3B2 8R+ G28 '2A*34*B*29B 9@:9B4&=9':5' +2 38:9' E253 42 3B:8/0 6' L 6' $9' 283 9 42=:B8' ' :B;2 2A+2B 29B2' 28 :B52;2538 2A34B 29B8' L E 53 J28 2A34B 29B80' '+' G2 9340+'3 +20 23.' L 2B;2 42 G:' 3 5?92' 2 4' 42 2;GBR:50 ?9 54 +283' 8 3940 4 58+'JB 520 '+'89B .2 49' <4B 8<2552' L 2B;2 42J4:;43B 2' 5J+22A34B 29B0 E:R8A ' @L 6$9' 82 < 882 9 42=:B8' 52 E 23:93 2A34B 29B2' :98 ..:B42M 9A G:;;28 &2 23 2A34B 29B 23 ; 34' B 2' 42 .3:50 23 E:98 4:552M ' 29.2 ; :9' E2;253 534B 29B 23 8<B 392' 42 53253:5' 230 < B .23 4?93 G+2 < B3 J20 E:98 + 2M +28' +:8' G9' 528 E2.' +28 4 E 5280 ' 0 /'A' :B8?92+2' .9+32 2A34B 29B ' 952 JB 542 ; J5 .25.20 .2+' 5:98 + 332 23 5:98 4:552 G2 9.:9< 4& 33 .=2;253 <:9B+'B2+ J:50 c'> "'AAE0 ' NN 6 $9' ' B <<:B3 9A < R8 43B 5J2B8' 2.:;;2B.2 2A34B 29B' '<:+3 ?92 2A34B 29B2' L 5 '43 ; 5 83B2 428 B2K + 3:58 2M34B 29B280 <:9B 428 B28 43B 5J B28' "'#' ' 2 ?9' 283 9 42=:B8 4&95 +:.+' :98 2532543;28 49 GB9 3 ' 2A34B 29B' L %6 28 < R8 43B 5J2B8' 28 5:9B2+28 42 2A34B 29B' L N6 2 ?9' < B 3 9 42=:B8' 02A34B 29B 42 .2 G 3;293 283 G4 9 L C6 &2582;G+2 42 << B25.2 4&952 <2B8:552' 28 845 329B8 +28 <+98 +983B280 ' 5&25 B2J B42B?92 2A34B 29B0 4 4B 253<29 428< R8 580 ' A ' && ' N' 5 2A34B 29B 8 ;<+2 283 = G3 428 G:;;28 E9+J B280 + 283 3 +4' <:9B 29M 23 89B +29B ;289B2' ; 8 .&283 952< B9B2<:9B .29A ?9':53 B2;<+'+29B E2 42 JB 5428 .3:580 ' s ' + 283 43B 5J2 ?9&+ 3 +9 952 +:' <:9B B4' J+2B 8:5' 2A34B 29B H42 &G:; ;2 42 B:G2I 23 +2 .:5' 3B 54B2 58' '43B2 JB E2 23<+98 B28<2.340 5'A E' ' E 3.23 2A34B 29B ?92 +2 . G 523 4:552 :B4 5 + B2;2530 ?92+?92 .=:82 4&95'<29 B942 23 4&95 <29 8 9E J20 49 ; :58 <:9B .29A ' ?9' ' + 5&43 3< 8 ..:939;40 ' 2, ' '4 B' .2<25' 4 53 42 E:3B2 2A34B 29B .2 ?9' ;2 < B 33 B <<2B 3:93+2 ; :5420 ?92 E:98 E2M G2 9.:9< 42 5:G+2882

"% #" 7'02"(#0/(%*!% .*%'" +0-/%-"/' ' "G ' 0 ' ' A ' ' = " ' NN ""+"#" .#%#'-@ /0-'"' */$*'+0%-*/'":%#'-"!'"#"(0/-+0!:'#*+"(@ %-,!"('40" '044*'%0!:'("'.-2"(,!!-&(4"!."/%#%'"/K #'"' ' !%-&-%##*/%-&(4"!."/%#%"'NNH' ' ("#-%#" ++#+"#" 2" ,!-'40'0%%#"&02*/#!-%' "!:' "(%-(*/(#*-."/%$0-'"2'0-/#"0!4'-/2"#"#*//"%'*4 ":@ %#'-"!"#0/(&"(' ":"2-2"(#" &0 4-#%#' ' 0 ' .-%' +' ')')d *&-%"(("$'*-#"'(-+4&"##+*/(%'0@ %-*/' #" 2-.-&-%#" "4!-(0$$0-'"#!' "#7-+"/% #"("#*-."/%$0-'"2'0-/#"0!4'-/2"#"#*//"%'*4 ":@ 70'#"(' -& /18 0.0-%4&!(7! '","!"#"/K %'"" "!:' U&0 +0'#260&"#" *!$$&'"("% &" #7"/%J' @(-!' AM'B ' ' %*!' -7' /" (-+4&"' 0440'"/2"' 10+*!" 0 %0/% #" $*'2" Q!!-& 0%%026" +"("("/(' 2"%%%" $0!((""0+"*'2"' $" "0(*/'4*(-%-*/(%*!9*!'(2*/("!." ' "# *!:' ":%#'-"!"U0+*!" $"-/%#*/"/%#*/%*/' +" ."!%4'-."' ' ' &0 !P.'-' ' ' ":%#'-"!'/10 40("#"#"7'#"#" 2*+40@ '0-(*/' &0 4*!" (!4"'&0%-$ 7 ' "4"/#0/% *'"&"+"/%' 0."2 #"7'#(#" 2*+40'0-(*/'#0/(*'!2*+4!'0-(*/"(% -/"4*!.'40' ;'40'5 #" 2*+4!'0-%-@ +"/%#"("-7/'*!" 0(0*/%(*#!@ 2*+40'0%-.0%!/(-/#"2'0(" '$*/0&"

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O ? 'D#[@(%#@'+-@/0@(-*/5 "/."'(' #" (-:'(8&&0;"(E' ' ' 2%-*/'#1":%"'+-/"'' 1":%"'@ +-/0%-*/'#!!/'4"!4#"' &(' %'0.0- #"/%0 ":%"'!-@

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;-&&# ,!" +*/%'"/% &"(260'&0%0/("% &"(;0%"&"!'('
"(%*!'(#" $07*%-/' /' +*-(#!'0/%' &" '*-' %-"/@
#'0-% *!" 4&-/-;'"' #*/% 1*--'"'%!'" ".0-% ;%'"
!/' $*'% 7'0/# $"(%-/' !-.-' #"(%*!'(#" $07*%-/'
C .-'' A' 'Yi' 0" ":%"/(-/' ;*!$$*/' #1!/'
%6He%'" #" $*-'"' é #0/(&" 20'/0.0& .*!(4*!."<
"(4M'"" " ;0& "%&O 7'0/#1;0/#"' 6 (0.*-" #"!:' +!K
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9 ' 'Y' ' 0+-&-;'"+"/%' 1"(% !/' .'0-' $07*%-/'
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26"'(0/' %68+!(*!' '-(#" ."0!' NN *+' .!&70-'" #!'
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'D$O@76"@/-E' ' ' "'+" $0+-&-"'" "%
.-"-&&-' #"!"'"; !%0/%" ,!-' (*'% #1!/' 2*'4(#260!-$$-5
*#"!"#16#4-%0&' *!(("%' "(20$-7/*/ '$07!"/0(' 20+@
;*!-(Q!-' $*'+"< 2" 4'"(/"% ,!" +"(8"!-' 'M@
9*!-(*!(10."!' #" +*/' /"< &*'7/"/% 2*++" !/'
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' ?' '-7-/" -/2*//!"' #"!" #" 2'*26"%"!'
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&" +*% -/% #"(#-0&"2%"(#!' ?-#-' ,!-' ("'044'*26"/%
#" 1"(407/*&
$' 'D$O@76 @$E' ' ' "'+" #10'% +-&-@
%0-'"' "%-% $07*%
' ?' " +;+" '0#-20& ' ,!" #0/(
$' 'D$O@60+1E' ' ' "'+" #" ;*%0/-,!"'
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6*!0'(E' .*-(-/" #"(.0/-&&"('#" &&" ?0!'-2"' !(-@
% "* ' /' '2*/%'" &O 46%6-(-"
%' 'D$;@;&O@91E' ' 'NN i' -+-/!%-*/'#"
80-"!" *!' #" ,!0/%-%8' ' 8 O -2-' NN i' $0-;&07"'2" M)'
@#" 1H%* $""(% +*-/($*'%' NN d /2-"/' %"'+"#" +*/@
/08"!'' Q!0/%-%8 4"'+%(" #" &0,!"&&" !/" +*//0-"
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&0-6&"(' "($0-;&" (+*'%"&(' 6 ;'*(#0/(+"(;'0(
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?9&95' G: ; ; 2' :9' 95' 5 ; +' <29E253' <:B32B' 2+2' 5&2A<B ; 2' B 25' 42' <+98' 2' B42 9' 283' 952' .= BJ2' <28 532' 2' A0' 8 J5 + 53' 43R ; :+:J ?92 ; 293' 95' + 8.2 90' 2A<B ; 2' <B:<B2 ; 253' 952' ; 9+3 <+ . 3R' 42' .=:828' B495 28' '+2' A' 428' 554.8' 428' + B280' 23.' ; 38' .2' 8258' 43R ; :+:J ?92' ' 4 8< B9' < B' +2' B:332+' ; 253' 42' &98 J2P' 23' + ' 4 83 5.3 :5' 283' ?92' B42 9' 283' 42' 3:58' +28' 83R+280' 23' ?92' A' 283' <+98' < B3 .9+' + 2B2 ; 253' 49' 83R+2' 4+2E4' [

-' # 0' S 68' B2 J5:B' H<+98' JB 54I' 8' H +I' <:B32' < B@:' H@29@' ?9 54 +' 8&25E2 82' H8& ; 98210' ' ' < ' AAE ' 'S 68' $9 53+'G B:5' &2532542530' .= 8+' .958' 8&283' BB 2B' 3B 8' :93' 58' .: ;'+' 8528' ?9' B2K J B42' +2' 80' # 7' AB' ' .+2B8' <:B32' 895' ; 2B2' 25 +' 89 ;'+2' .= 2' 4480' 2' +' 283' < 8' +' .:B8' ; 8' 283' = & 52 ; 2' ^& ' 80' 9 ' ' 'Pb' ' ; 9+3' +' 82 3' G:5' JB4' ?92' 8' JB 53' 8' 2 ; <B2530' $9&25.:53B2' B2' 42' 32BB2' 8 53' J+ 82' 42 2530' 1' NF0' 2' 2+2' H+' <25+' 842I' +:' =8>28' 32BB 258' <2582 B8' \' & <B288230' J23+' 3232589842' ' 1'<' "NC' LLA ; 6' 8' 3' 3:58' 988253' ; :B3' 82' 52' 983' + ' .=2E +2B 2' ?9' 283: 3' 25' & BB 2B2' J B420' ?9' 8:983 53' +2' 8' 428' BB 8 58' ? ' ; :9+3' +28' BJ9: 2530' ' ' < ' 7 ' >&25' <B258' 8:B' ; :' 3B283:93' +2 380' < ' /7C' ' B +' 3 53' 23?92' 52' < <8' ; G8P' ' 92' .:E 253' 325 B' 25' <28P' 2A' 4: 583' ?92' .2' 52' 8: 3' 3B:<' 3 B3P' :M@:B8' ' .B2=' ; :5' 80' ' F' ! :5' .=2E +' 8& J25: ++ ' <:9B' +2' 2M' ?92' +' 8253' 0' 23' @2' 25' + ' :93B2' < B ; ' +28' :B2 +28' 49' .=2K E +0' @: E' F%' S 6 8' $9 53' 95' =: ; ; 2' <:B32' 95' <28 53' 2M' 23' 9.958' 93B28' +2' 8:9+2J253' 25' <B2+' 5 53' 952' < B&3 2' 42' 32+8' 2M0' ' < &' F7' 'S 6 8' H 28' 25J 5810' ?9' 59 3' 23' @:9B' @23: 253' < 2B+' B28' 42' A' 9' .= 832+0' ' 0' 0' A ' 3:83' ' & +8' E B253' +29B8' 2552 ; 80' +8' B2.9+2B253' 3:93' \' 95' A' 8' 428:B4:5542 ; 253 ' 5' 0' 0' FN' +' ; 83' 3 53' 42' .=:828' 25' R ; J 5 3 :5' 23' 8' JB 5428' ?9& +' 42 ; 29B' 8:9GM' +2' \ A0' ' BE0' 3 ' LLAE' 6' 8' 28' 9B.80' <B2838' \' 82' B23 B2B0' 8& E 82B253' ?92' .2' A' 4&2 9' E: 3' B2549' 593+' 2' & B?92G582B 2' 23' B B3 ++2B 2' 428' =B283 2 0' "G ' ' 90' 388' S' = 932' ; :5342' +2' A' 25.: ; * GB20'

-' ! ' B:E25^0' ' 28< J5' =VXP' <:B39J' 7 ' 3 +' * 3' 49' + 3 5' * ' 8.2 9

'Q 6\ B/0' (' ' :R' C

' c ' Q *+ *GB*J= R/0' ' ' '428' 5: ; 8' 49' ; .:.:9+ 2B

'Q *+*M&/0' 'I' 2BB28' :9' B:2=2B8' 28. B+' <N8' +2' +:5J' 42' + ' ; 2B' 28' + 828' 42' + ' ; 2B' 25' :BK ; 54 2' 8 53' .: ; <:8428' 42' .:9.=28' G:B M:53 +28' 42' .B 2' 8' B\J9+ GB2 ; 253' .:9<428' \' <+: ; G0' ?9&:5' +28' <B254B 3' 42' +: 5' <:9B' 428' ; 9B8' 42' :B3 . 3 :580' ' & ' ' >,/' 3' A 0' <' R)0' 4 58' :

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' -' # ' S 6 8' $9 83B253' H +8' < B.:9B9B253I' 3 53 E +428' 23<+ 5280' $9 83B253' +: 828' 23' ; :53 J5280' bf ' , ' ']' 3 B0' 4 58' 'N&A ; 6' #' [' 428B:+' .=253' +' 9B' \' ; :9+3' JB 53' 25.: ; GB 2BP' $9' .= 23' H3: ; G2I' 25' + ' +: 820' @ ' 5&25' 283293' <+ 4 2B0' 988' G 25' +' E25B: 3' 25' 25 +2B' 3B28G9.= 2B0' ' & ' E 0' C' O I' 8' ! 532' + M2' H & 5J+232BB2I' ' 89B' + ' ; 2B<:8420' # 9+32' 23' G+ 5.=2 ' ' 5 ! 80' D ' >?-/ ' LLAE' 6' 8' 5' G 5.' 283: 3' 42' 8 G+:5' ; 8840' :8 5' 49' G:B4' :+' B 5.:8' 9+' .= 8840' # 93' 42' \+ M2' 23' 42' G:9BG2' 33B 5420' I' 2 7' 9 8E:R 53' +2' E 882 9' $9' +2' <:B3: 3' 2.=:94' 4286' 898' &2 90' 2 ; *.:E2B3' 42' + M2' 23' 42' G:9BG20' 3$3' 9

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' 3' * ' 42' 3:9B' 42' G: 8 ' Q +*G *+ /0' % ' BJ2' G 542' 4&43: 2 + 8822' ?92' +28' 2 ; ; 28' ; 233253' 9' G 8' 23' \93:9B' #2 +29B8' @9<280' " ') ' EWa' Q?9' 4 3' ?92' +2' ; :3' 283' E259' 42' + ' .:9B@' :5' = G 3' 4&952' 4+ +2 5K 3 ?92' 9B' 428' +G + 8' 25' <:B3 ?92' +B 3' 4&2?9 E +' 0' ?928' .:9+29B80' ' >, ' 50' - ' Q+233' 49' ' /60' @9 +23 C %/' B+:98' ; 5325 53' 42' 5:8' G2++28P' + 28' B2< 88253' +29B8' 42532++.80' :53' ; 233B2' 4 58' E:3B2' @ B4 5' 29B8' .:B523328' 89B' 428' .2++280' 4< +' 3253' ?92+?928 +G + 80' 5' 1' 50' V7C Q 5542' VC:C/

+G + ' < B' = 93' <:9B .2++28' ?9' 5&:53' <: 53' 42' = 5+' .=280' .2++28' ?9' 25' :53' 3B:<' +2' <:B3253' <+98' G 80' :' '& ' ,'3 '8.' F' LL 9@:9B+' 4&=9' +2' +G + 0' ?9' < B 3' 4 '32B' 42' + ' 5' 49' B2J52' 42' :9 8' S 0' 8& <<2+2' E:+ 53' LL 5' ; 23' 988' 428' +G + 8' \' 428' B 42 9A

-' (! ' 252E' 1 ' 28< J5' 1 ' 23' 988' 1 '<:B39J' 1 ' 3 +' 1 ' B ; 20' 1 3 < 2 ; ' 1 ' & <B28' ! 25 J2' Q 5' ; :3' " * 5' 1 ' ' 234' 5E2534' < B' ! ' 42' 5+' J+220' ; B4.= +' 428' . ; <8' 23' B ; 428' 49' B: 0' ?9 0' \' 952' .:939B GB2' +9' ' ; :53B 53' 952' B:G2' E2:' .2332' G 542' <+ 88220' 3' ..B: B2' ?9&:5' 5: ; ; 3' 58' ' +' :9B' .28' 8:B328' 42' G 5428P' + ' .:939B GB2' B24 3' .2' ; :3' ; J 5 B20' ?9' 3' :B3952' & <B28' 25 50' .")' ' 3' ' <' # 0' + E 253' 42' &28< J5:+' ' = G 3' 42' 2 ; ; 20' ' .:3 +:5' <+ 882' & <B28' 4& 9K 3B280' + E 253' 42' & 5J+ 8' , 1 F' +G + 0' 42' , ' :9BB9B20' 1 F' 25' G 8P' .2' ?9' 283' <293*43B2' + ' EB 2' 43R ; :+:J 2P' ' ; : 58' 3:932 : 8' ?92' , 1 F' 52' 8: 3' 952' +32B 3 :5' 49' ; :3' B 5. 80' 3B 58 :B ; 2' 42' ; 5 2B2' \' E: B' 95' 8258' << B253' 25' 5J+ 8' 5' E: 3' ?92' &:B J 52' 42' .2' ; :30' 52' 49' 32 ; <8' 42' :9 8' S 0' 283' J5:B22

' Q +*G *+ *84/0' U' :0' ; B' 42' +G + 8' 52' B:G2' G 25' +G + 8842 tt ' Q +*\ +*4 *5&/0' ' 2B ; 2' 42 ; 4+' 42. 52' 2.3 :5' ?9&:5' ' B2J B422' .: ; ; 2' 952' E K B 23R' 42' + ' 8R<= + 8' 23' ?9' B2J52' 4 58' +2' +. +4:0' .:53B42' 42' + '<B:E 5.2' 42' 2++952 3' ' Q +*\ *39* &/0' ' ' 253' :88 +2' R 53' + ' J9B2' 4&952' 9A

-' (! ' ; 593 ' B4' 49' + 3' * , ' ?9' 283' 25' :B ; 2' 42' 9A

' Q +*8 *4 2/' :9' ' Q +*8 +' 4 G*5&/0' 5' ' 2B ; 2' 42' 4B: 3' B: ; 5' $9 B32' ' +. 4 2' :9' +. 4 25520' <:B3 :5' 4:53' =2B 3 2B' 3283 +' ; 253 B20' .= BJ4' 42' +2 ' ' 2A.288 80' E 3 +2' 4B: 3 42' B2' + ' 4 83B .3 :5' @L 9G83 53 E2 ; 2530' + ' +. 4 2 ' ' 3' 7') ' 42' - * , ' 5: ;' 49' 3B G95' ?9' 3' B254B2' .2332' +:

j' ! ' Q +*8 * :B* ; &/0' 6' 2B ; 2' 4&= 8+' 3: B2' 5 39B2+2' $9' ' + ' :B ; 2' 4&+ 52' 9A' J ; 253' +. :B ; 2' 49' : 2

' (! ' 3' L 7' 9A' 0' 23' ' :B ; 2 3' ' Q +*8 *5G*+&/08 ' ' 25B2' 4&: 82 9' 42' &:B4B2' 428' 2.= 88 2B8' +:5J B:83B28 tt ' Q +*8 *B:*83B&/0' 6' 2B ; 2' 42' M: :+:J 2' $9' '+2' G22' 25' 9A

-' (! ' 3' 7' 9A' '23' , 'G22' 3' ' Q +*\:*5G* &/0' 8' ' 25B2' 42' < 8+' 82B2 9A' 4253 B:83B28

3' + ' Q +*\:*5 *4&/0' 6' 2B ; 2' 42' M: :K +:J 2' $9' B2882 ; G+2' 5' 9.:5' LL #' ' 28' +.:+' 5 4280' + ' ; +2' 428' 92:58

' (! ' 3' * ' 9.:5 3' ' Q +*\:B*4&/0' ' ' ; :' E9+J B2' 42' + ' ; :92332' G+ 5.=2' 23' 42' + ' ; :92332' 5: B2 3' ' Q +*\9* N*B&/0' 6' $9' 283' 25' :B ; 2' 42' 9A

-' # ' 3' *, 0' 4 ; 593 '4:' 7' 9A' 0' 8'

tt ' :9' ' Q * &/0' ' ' 2B ; 2' E9+J B2' 2' @ G:3' 428' :82 9A' 28' < J2:58' :53' + ' +2' <+2 520' +8' 8:53' B 88 8 48 3' ' Q *+GB*5&/0' ' ' 2B ; 2' 4& 53 ?9 34' B: ; 52' 2' E 5' 428' 25E B:58' 42' +2B52' 25' ; +' < 5 20' ?9' E ; 3:52' JB 542B4<93 3 :5' 'E2B39' 49' E 29A' 3:50' =2M +28' ; ; 58' 3 53' <B45420' 3 3' 8:9E2530' 5:98' 4 3*:50' 2' +2B52' 25+9 ; 5420' >' ' :988' C '50' ' 2' +2B52' 4.9 ; 3 4 58' 42' + BJ28' .B 3GB28' 2 538' 42' ; RB328' +29B 80' E' 0' C '

3' $ ' Q *+ *8\&/0' ' ' :R' 6 < ' Q +*+ *8&/0' ' ' .3 :5' 42' 3B: ; <2B' 25+' ?92+?92' ; 9E 82' 53253 :5' 5' =: ; ; 2' 8 58' B 942' 5' ++ .2' ! ' '$&& ' +2' +9' ; 3' 9' 82 5' + ' B982' 23' + ' .20' : 0' # 'E

-' # ' S 6 8' 3' ; 25 '3252 ; 253' +2' < <2' < B' 828' 4:58' 23' < B828' ++ .28' ?9 8 # 8 ' ' ' 33' HL A(6' 8' 4:B58' E:R 53' ?92' < B' :B.2' :9' ++ .2' & E: 253' <:9E: B' 42' J @352B' .2332' <+ .20' ' ' <' 0' 4 58'

-' (! ' B:E25^0' 23' 3 +' * '28< J5' ' * ' 49' + 3' * ' ' 7' 3B: ; <29B0' 42' 3B: ; <2B' QE:R' I ' I ,G

! ' Q +*+ B8 *24*M2* ; 5/0' &952' ; 5 GB2' ++ . 2982' J+B' ++ . 2982 ; 253 -' # ' O I' 8' ++ . 2982 ; 2530' ' ' -' (! ' - * , ' 23' +2' 89 A2'

S0' ' Q +*+ *8 *2+0' 2 *M&/0' 6' $9' 3B: ; <2' 23 2J B2' <:9B' 59 B2' 2' < < 2B' ; 2' ; 5+' ?92B 30' 8' @2' E: + 8' 4 B2' 3:93' .2' ?92' @& ' 44.:9E2B3

42<9 8' ?9& +' 283' < B3' 4& . P' E:98' <:9E2M G 250' 8 58 8.B9<9+20' +2' 3B +2B' .: ; ; 2' 95' =: ; ; 2' ++ . 29A0' ' = ' ' 5:E' 0' ' ' 82' 4 3' 988' 42' .=:828' 2B ; 25380' ++ . 29 0' 8 +93 B2' .:53B 596' $92' ; & ; <:8 ' + ' :B.2' 2+' ?9& ..2<3' + ' .B 532' " ' < ' ' 52' E E2' ; J2' 428' 4 5J2B29828' 58 59 3 :58' 23' 428' 423:9B8' ++ . 29A' 42' &28< ' ; + 50' ' ' 0' ' &2+:?9253' :88923' 283' +2' 829+' ?9' 82' 8: 3082BE' <BG8' +9' H :B52 ++2I' 42' .2332' G2++2' 4< 3=G320' ++ . 29A ' <:9B?9:' << 9EB B' 8' + 5J92^' 95' ; :3' .:58 2B4' < B' :B52 ++2' 23' :88923' <293* +' 43B2' G 54:554^' 9 ' ' ' < ' , '

-' # ' B $$ ' " " ' ++ . 29A' 25.=4+' B 3' 89B' & 422' 42' 3B: ; <29B' 5' + 5J J2' 3B: ; <29B' 5:98' 4J B2' 23' 5:98' <B482532' +28' .=:828' 93B2 ; 253' ?9&2+28' 52' 8:53P' 95' + 5J J2' ++ . 29A' 5:98' 3B: ; <2' <:9B' 5:98' 59 B2' 42' 42882 5' <B4 ; 44 34

-' ('O I' 8' B?9:R' +' 4:55' .:5J4' \' .28' .:549.329B8' G BG B280' 230' + 88 53' +29B' ++ . 29A' 4283:9B' 49' 4B: 3' .=2 ; 50' 25' <29' 42' @:9B8' < 42' B E 2B2' 4& 9<=B 328' 23' BB E '25' + ' .34' 4& 53 :.=20' '=, , ,#' 0

-'$- ? ' 3' * , '42' * ' ++ .2 ' D$O@&*-'E' -&' $O!%5' -&' $O&&O-%5' -&' $O&&!%5' -& 94B P' +' 94B 3P' ?9& +' ++2P' ?9& +' ++ 3P' <: 53' 42< B3 . <2' <B482530' E:R' <:9B3 53' .2' ?9' 283' 4 3' 9' 56' "'<:9B.2' < B3 . <2P' ++90' 5E B G+20' ' " 'LL ' B2' G28: 5' Q+2' 8258' 43R ; :+:J ?92' 42' ++: B' 43 53' +, 5' ' +9' ++ 3' .253' B 5.8' $92' E:98' 93* +' 25.:B2^' >& ' +2' .=2E +' ?9& +' E:98' 93' '5:98' 94B 3' ; +2' <2B8:5528' :9B' 4<+9.=2B' 3:93' 22 . 53:50' ' - 1' 0' F ' ++ 3 5' B 8+' 3:32' <:9B ; ' +2A 54B20' ' * ' >,/' 3' E 0' <' N "0' 4 58' ' @ :9B +2' <23 3' 5 ; GB2' 42' .29A' 4:53' + ' 3432' 283' 2B ; 20' +2' J:93' 44+ . 3' 23' +2' 8258' 2A+' ?9 80' 23' ?9' ' .: ; ; 2' E:980' ; 288 29B80' .: ; <3253' <:9B' <25' +2' 3: 50' +28' J28328' 23' +2' 2A 5' 8:5' 428' ; :380' +' 93' 428' .=:8280' 428' <258428' 0' 428' B 8:580' F ' ! *' ' * " ' '3&* ' +' ' +9' E 5J3' ; +2' 58' <:9B' + ' B23B 32428' 2 9A0' ?9' 4& G:B4' 43 253' 4+2E42842' 429A' ; +2' 3: 828' 9*428898' 49' 5 E2 9' 42' 5:8 ; 2B8' .+' 392 280' ' I' " +, ' >,/' 3' A +0' <' 0' 4 58' 4 * ! ' +' ; 2' 93' ?9' ; &283 ; 20' +' ; 2' 93' 428' ; 8' d' ?9' 4 58' ; 28' 82.B238' 3:93 .2G8' 8: 3' <2B ; 80' ' (' ' 29' .B92+0' ++ 3' +' 5:8' 89<+' <+ .28' :9B' 3' 2+ . 32' 3' ? ' ! 24' 0C ' +' 82' ; '3 42' & BJ253' \' 4:552B' <:9B' .= 3' 4&952' ; B.= 54 820' <:9B' <B S' 4&95' 8 + B2' ' ; G 25' E:98' 93* +' <:9B' E:3B2' ; B.= 54 820' <:9B' E:3B2' <2 52' ^' LL 6 ; <+:R4' E2:' +2' <B:5 ; ' <2B8:552+' ' 23' <B4.444' 42' + ' < B3 +' .9+2' 250' .2' E2BG2' 54 ?92' 952' 4 2B25.2' 25' ; : 58' 5' 2232 2 ; <+: 0' 2&283' 95' E2BG2' 5293B2' B4 +4.= 0' .: ; ; 2' % , ' 23 +' 82' .:5@9J92' .: ; ; 2' 28' E2BG28' B4++2+' .= 80' 2&283' +' *4 B2' E2.' +2' E2BG2' :98' 4 328' ?9& +' 8&25' 93' 3 53' ?92' + ' 8: ; ; 2' R' 8: 3P' +' 52' <253' 8&25' ++: B' 3 53' ! ' '$&* ' ' +32+ 52' 283' 3:932' ' 5:98P' 230' 8& +' 8&25' 93' ?92+?92' .=:820' * ' 5&283' ?9&9 ' :B3' ?9' 5&283' < 8 ; 2 +29B' ?92' +28' 93B28' ?9' 82' 8:53' B254980' ' = ' ' < * ' @ 5E' M R ' ; +3B2882' 49' ; :542+' =2' E:98' ; 2' 2B 2M <29B' & +' 52' 8&25' ++ 3' < 8' & B ; 45 2' 23' ; :5' ; :29B0' . * ' ; 0' ' :98' 52' +28 9B 2M' < 80' 8& +' 8&25' ++ 3' 95' 4:9G+20' ' A ' ' , ' M ' :9B' ; : 0' @& ' E9' 428' ; : ; 2538' :4' +' 52' 8&25' ++ 3 B 25' ?92' + ' :BK 3952' 52' ; 2' ; 23' 4 58' + ' <+98' JB4 G+2' 8 39 3 :5' 49' ; :542' 8 E' " ' @& ' 432' 89B' +2' <: 530' .28' @:9B8' < 88480' 42' ; :9B B P' +' 52' 8&25' 283' < a' +9' &2< 8+' 829B' 4&95' .=2E290' 9 ' 82<3' "CC ' ' 2.: ; <32' 5&R' 283' < 80' +' 8&25' 93' .253' 8:980' + ' 4 2B25.2' 25' ; : 58' 283' 42' .253' 8:98' LL 5' +2' 4 3' 988' E2.' + ' <B4<:8 3 :5' ' ' 52' 8&25' 283' +9' ?92' 4&95' ; : ; 2530' 9 0 * ' ' 14 C' ' 2332' .:583B9.3 :50' +' 52' 8&25' 283' < 8' +9' &4< 8 29B' 4&95' .=2E290' 8&2A<+ ?92' 58 ' 89+' @23' 54432B ; 520' 2&283' +' *4 B2' 3 " , ' % , ' * S / , ' 52' 8&25' 283' < 8' +9' 5' 4 B 3' 988' +' 52' 8&25' 283' < 8' +9' 42' &4< 8829B' 4&95' .=2E29P' ; 8' +:B8' &2S<+ . 3 :5' JB ; ; 3 . +2' 283' 4 4B2532' ' % ' , ' 82' 4 3' G8:+9 ; 253' <:9B' 8 J5 28' 8 2B' R' 952' 4 4B2522' 25' ; : 58P' 23' '3 " , ' %, ' * / ,' 42E 253' 952' +:.93 :5' 4E2BG +2' ?9' :4 2' % ' , ' ' 82' .:583B9 3' E2.' +, ' 23' +2' 89G@:5.3 ' +' 8&25' ++ 3 ?9& +' 5&2E3' .=2E4' ! ' '3&* ' +' 8&25' 93' <29' 42' .=:82' ?92' .2+ ' 5& ++20' 3' N I' +' 8&2' 93' G2 9.:9<0' +' 8&25' 93' G 250' + ' 4 4B2522' 25' ; : 58' 283' JB 542' +' 8&25' ++ G2 9.:9<' ?9& +' 3 8 +' 3 8 3' & 332532' 49' <9G+ .0' ! ' '3&* ' +' 8&25' 93' G2 9.:9<' ?92' &95' 3' 93 53' 42' ; 4B 32' ?92' & 93B2' +' 52' 8&25' 283' < 8' G2 9.:9<' ?9& +' 93 394' >2' <9 8' E:98' 8&25' ?9& +' 8&25' 93' G 25' ?9&:5' R' ; 29B2' 42' ; 0' '= ' "N 4' ' , ' 23' G: ; ; 2' < B 3' B2' 3:93' .2' ?9& +' E2G3P' ; 8' +' 8&25' 93' G 25

[illegible]

? N

3' 'Q *+:*32*B 2/0' ' ' .32' 42' +:3
' 'O I'(' 0&*&"'-"' " ' !
' '- ' "P' 3 +' *
M' > 'Q *+:9B*4&/0' ' ' J:3' 42' Q@9 3B2'
G9'. 5?' G9. 28' + 428' 2582 ; G+2' :9B' 952' E: 2' 42'
+:9B428' 42' <2B.=28' 283' 49' 9A4 38' : . 2B8' '8:+8'
5' 425 2B80' ! ' :.3' VC N0' 9 5' 25' E254'
G2 9.:9<' H42' G: 8* +:3341' 9' ; 259' <29<+2' 25' +:9BK
428' .: ; <:8428' 42' 8 A' :9' 82<3' G92G280' ! ' ' '
' 'A * ' ' C C' L> +:9B42' 42' = B380'
JB 54' J:3' 42' 4:9M2' :9' ?9 5M2' +:5J8' ; :B.2 9A' 42'
G: 80' J B5' 4 58' & 534B 29B' 42' 44GB 8' 42' = B380' 42'
+ 258' 423B 5' 42' G: 8
-' # 0' A ; 6' 8' !' 8 +' G 25' .:55: 83B2' 328' =:B428'
3328' +:G28' 23' 328' +:B428' . -' NN%N' 5' 93B2'
+ 29' +28' .:E 253' 3B2B20' =' +' ; 2' 23' &:B2 ++2' 8:B420'
$9& +' 5&' .9B2' 42' ; ' +:B420' 3' @2' +' B2 2B '+' ; :20'
' 50' C.' S 6' 8' 2 J529B80' 42' 5:83B2' +:R' 428'
3B9 B2' 2' .2 2' >=289' +2' 3B = 8328' H+2' 3B +3B2@' :9B'
H" & 42' 42I' ++:9B428' ?9N' +' '4 .3280' 3' 49' 4 B2'
<: 53' 52' B2.B: 3' H52' 82' + 882I0' '0 ' ' '@' [' '
&2542 ; 5' +' 30' < B' +28' E + 58' 49' < R80' .= B 2B'
23' <<:B32B' JB 53' :8:5' 428' G9.=28' 23' 42' E2+:9B'
4280' :88' 0' 0' ' B 53' :8:5' 4&283B 5' H< ++2I'
23' 42' =2+:9B4280' 5' 0' 30' 7%' LLAE 6' 8' J:38' 23' E2'
+:9B4280' 1!7 7 #' / - #' 0' <' F " ' 9++:9B420'
' <' V7C
' ' 5' ' 3' E25 B' .2' ; :3' 4' 7' F '
23' 2M' <<B:9E2' .2332' 43R ; :J 20' ; 8' 2+2' 52' <293'
82' 8:9325 B' 25' <B2825.2' 428' 5. 25528' :B ; 28' 5'
3B:9E2' 4 58' +2' A ; 6' 8 G.+2' 'Q28< J5' 5'
3B: ; <2B 20' G:9B420' ; 8' 5:5' E2.' +2' 8258' 42' J:3'
+98' 3 B4' 2&283' / ' :9' 1 F ' ?92' &:5' 3B:9E20'
8 J5 53' J:3' 25 5' <+98' 3 B4' 25.:B20' 23' E2.' +2'
8258' 42' J:30' , ' 58' &43 3' .39 +' +' 5&283'
< 8' <:88 G+2' 4&4.+ B. B' .2' <B:G+G ; 2' 5' 42' 4 B2' 8'
, ' 23' , ' 8253' +2' ; ; 2' ; :30' 5' 8& +' R'
' ?92+?92' B <<:B3' 253B2' ' 3B: ; <2B 20' 23' S
, ' J:3' - ' +9' ; 4 ; 2' ' +2' 8258' 42' G:9B42'
' ' ' Q *+:9B*4&>0 ' ' # B:542+2' 42'
; 2B
' ' :R' 3@I
' 3' $ 'Q +*\&/0' ' ' 2B ; 2' 42' ; B 52' 2' 4 3'
42' <23 38' < 552 9A' ?9' 82' <+ .253' 4 58' 428' .:9+ 8828'
"' &254B: 3' 428' 3:+2380' <:9B' 2+2E2B' +28' G:B48' 428' G K
32 9A' 23' 2 ; <=2=2B' 2 9' 42' + ' ; 2B' 4&R' <25G3B2B' 5'
4 3' 988' BJ92
' (!' J 52' 5.:5592' 8< J5' * ' 3 +'
j' ' $3> 'Q +*\&/0' ' ' 2B ; 2' 42 ; 54J2' .K
3:5' 42 +?92B' 28' +? 28' 8:53' <B:<B2 ; 2533B: 8:9'
' ?9 3B2' <23 328' .:9BG23328' <B288428' E 53' BB 3
' $ 0' 'Q *\40' \42/0' 6' 2B ; 2' 42G:3 +'
0' ?92' $9' 283' 25' :B ; 2' 42' 9A
b3 -' (!' 3' * , ' 42' 7' 9A'
Q ' D$O@&[#E' '/ ' ' "'+"' #"' +0/#7"' 0-''"
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' ' 3' .3 0' *CI ' 9.=2BQE:R' .2' ; :3/
3' $ 'Q +*\ 2/0' ' ; ' 2B ; 2' 42' 9.:552B 2
: ; ' 4&: 82 9' 42' +29BB280' ?9' 8& <<2+2' 988' =:G2'
.2 9
' (!' ; 593 '4' 520' B =? 8' *' QE:R]'
@
\' 'D$O&@(-@$&@O@ ; &IE' 6' Q!-' 4"!%' %"'
+8 4
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' Q +*8 * *\ *329B/0' ' ' 2+9'
.; ' 8 2' >2' .32' .28' E2B8' <:9B' B2' E: B' .: ; G 25'
.2' ; 43 2B' 3 2' <23 38' G BG:9 ++29 80' 42' <23 38' : .9'
+ B280' 42' <23 38' . +: ; 5 329B80' 42' <23 38' +8 . 329B8'
49' .: 5' 42' + ' B92' 283' G: ; 5 G+20' 9 ' :554 '
' (!' -
' Q +*8 * *\ *8 :5' 2' 25' E2B80' 42' 8 A'
8R++ G28/0' ' ' .3 :5' 42' +8 2B' B489+3 3' 42' .2332'
.3 :5 + ' +8 . 3 :5428 ; :55 28 3 :9@ :9B82 + 29'
4 583:58' +28' 3 3 38' 23' 4 58' 3:58' +28' 32 ; <80'
' *' C>, /' ' A0' <' N F0' 4 58' 7 '@/ +34'
B 3 :5' E:+:53 B2' 23' B 949+2982' 428' 89G83 5.28' + *'
; 253 B280' 428' E 580' 428' +.: :+80' 4&952' 89G83 5.2'
; 44 . ; 2532982' < B' 8:5' ; 4+ 5J2' E2.' 428' 89G83 5.2'
.28' 52B328' :9' 42' ?9 + 34' 5 4B 29B2' LL +34B 3 :5' 428'
32A328' 48 . 3 :5' 42' :23' .32' 283 ; 5 <832' L +K
34B 3 :5' 428' 38' >2' & ' <+ .4' H+2' + 29' 42' + ' 8:4521'
4 58' 4E ++20' G 25' ?92' 4:5' 2B5 54' 5&25' 3@ ; 8'
434' +2' ; 3B20' 23' @& ' 434' :G+ J4' "' .2332' +8 . 3 :5'
< :9B' :B ; 2B' ?92+?92' EB 82 ; G+ 5.2' "' + ' 428.2532' 428'
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+0'-2"' '#4!#-"' (0$"' + +"' (-&"-"' 0.0-%2*+ +-(' !/'
0#!&%#"' 4'#40'#' #!' 4*-(*!' *!' $0&(-$-#' &"(' 2&"$('
(-$-"' &"(' 0&&!"(' #I!/' 26".0&' &"!' NNBF "' $0&(-$-"'
$0-'"' %"' ! + "' #"' ; -"/' "/' +0&' NNBF "' $0&(-$-"' ' '
$-%'"' $0&(-$-#' *!%' ("' .-*&"' "%%*!%(' "$0-(-$-"'
- ' / ' A'
' 'O I' (' ?0 2*/(2-"/2"' /"' $0-(-$-"' 40(' !/'
-*%0' ? ' ' &&"' "(%*-%' ; -"/' 0#."'%-"' 2*+K
+"/%' 1"#-2%' #"' 40-' ("' $0&(-$-*-%' U$0!((0-%@' 40"' %*!%
"G ' "' /1*!.'-"' #"' %"&"' !(' 4*'@
%"(' '7"/(' #"' 7!"' ' "(*! ; (' /"(-+4&"' &"' %"' #"' 20K
26"%' , !"' */' $0-(-$-"' (*!."/%' 1' 9 ' A' (
."/#"/%' #"' !"%6"' -0, !"' $0&(-$-#' ; -"/' %"' 26"'' +"/%'
' 22 ' Da
?' 0%' ' #"' , ' $0!:' D.68'
O E' "%' * '$-%-'"'
%' =' ' =' D$0&@%' 0/ [E' I' '
/$!(-*/' #"' 4&0/%"(' 0'*+0%-, !"(' '"2!"-&&-"(' 20/(' &"('
&4"(' (!-(("(' "%' #*/%' */' !(' 4*!' "(' 26!%"(' "%' &"('
2*!4(' ' "(' 4&0/%"(' "&&"(' @+#+"' ' 6#' #"' $0&%' 0/[
0&%' 0/[' (!-(("
' # $ ' "+ ' %*+ ; "' ' %' 9) ; *-(@'
(*/' > ; *-(/' 4*!' &"(' 26!%"
' D$0@ !/E' ' #; '-(' #0, !-&&-"'(' #"' #-K
."' (' 7"(' $*' +0/%' #"(' ##46%' +"! ; &"(' , !"&, !"' $*-('
%'#(@2*/(-##' 0 ; &"(' ' :4&*-%"(' "/' , !"&, !"(' "/#'*-%0('
4*!' 10+"/#' +"/#"(' %"' '"%"(' %' -$$#' %"' 4 &0/%"(' #"('
+0'/"' ' "(' (%"' !/' +#0/7%' /0%!"/%' #"' 20&20-'"' %'
#10'7-&' ' "($0&!/(' #"' &0' *!0-6"' -2"' $0&!' 0' ##'
4'*#!-%' &0' &*/7!' #0/(' &0' +"' ' &&"' "(' %#* /' ."K
/!' ' 4"!' 4'#(' ' , !0'0/%' "!(' #0/(' !/' 408('
4&0%' "%' "&&#' /18' 0' 4*-/%$' *+ #' #"' +*%7/"(' 9 '
! ' ' +,
' ? ' -7-/' -/2*//!"' ' "!%@*/' 2*/9"2%!'"'
'0 "-' ' 0/7&' F '7'-("' "/#'#3' ' -2@'
$-*//0-'"#"(' 0'%(' "%' +#%-"' (' #"' AMA' #-%' , ' "%'

$' ' D$O@&!@/"!'E' ' +' !.'-"' , !-' ":@'
4&*-%"&"' $0&!/
' D$O@&!@/-#@'1E' ' ' ?-/"' #"' $0&!/5'
"/#'*-%#1*6' */'%-"#!' $0&!/' 0' *!''0-/"' 4*(("#"'
#"(' $0&!/-"''"(' %'"(@#%"/#!"(' '"2*!."'%"(' #"' , !"&K
, !"(' 4-"#(' #"' %"' ' "%' ":4&*-%#"(' #0/(' 408(' #"@'
4!-(' !/' %"' +4(' -++"+*'-0&' -' , !"&, !"(' 4"%-%(' %' 07@'
+"/%(' #"' 2*, !-&&"(' #"' ' &0' %"' ' +0'/"!("'
"%0-"/%' '#"&&"+"/%' "#"(' 2*, !-&&"(' #"' + ' ' $0!#'0-%'
0.*!"' , !"&&"(' (*/%' #0/(' 2"%%' $0&!/-"'' #"4!-(' #"('
%"+4(' !2&#(' , !-' #4*!.0/%' /%' 1-+07-/0%-*/' .*g '
& ' 1!=7
-' ?' 7-
? ' D$ @+1E' ' ' "4!%0%-*/' ?*%' %*+ ; #' "/'
##(!#%!#"' "%' 2*/("'."("!&"+"/%' #0/(' 2"%%' &*2!%-*/'
#10/2-"//"' 4'0%-, !"' > #%0 ; &-' #0/(' (0 ; *//"' $ +"' "%'
"4!%0%-*/
' 'O I' (*(%'"' $0+"' /"/"' %' +-"' (0-/"' 5' 20"'
' +0&' &"' 4*4&"' +"-/"' . ! ' 4' B' % .-/%' &0' $0+"' 0'
%*<' 2"(#"' ('0"&' , !"#"(2*/$-<$!"/%' &-' 6-&-(%-"/' 1'
' ' O I' (' *"(' "%' $0+"(' 7&*'-"!("(' ' '9'
M)' /%' "&"(' +0-/(' &"' +"%%0-' #!' /' "$"' + +"' Q!-' 04@'
4"&"' "(%' '/*+"' +#"' *!' $0+"' ' ' DF
' # $ ' '*." /3' "(407/' '"%' -%0&' 3' #!' &0%'
3' 7' "*' -4 -S -' #"-$#*E' G4 E -^ #-' ' "+&0%-/' #'
D.*8' @
? $-' $- D$O@+# + #"E' "; ' ' /"' ("' #-%' , !"9*-/%'
0!:' 0#."' ; "(' - ' ; -"/' $0+#' +0&' $0+#' , !-'
0' !/"' ; */' !/"' +0!.0-(' '"4!%0%-*/' ' *!%' "(%'
4"' #!' %0/%' , !"' .*(' 07"/%(' "' /"' #"' 4'*%"%'
7#(' *!' #"' 6*+ +"' +0&' $0+#(' $ ' K &
' YY
' 'O I' (' *'(' !/' .-"-&&0'0%' 4"'(*//"(' %"'
$0+#"' 9' ' 4' GRM' #0/(' "(, !"&<"(@'
%*8"/%' 7"/(' 6*//*'0 ; &"(' "%' ; -"/' $0+"<' ' */%'
/ -' Y
' # $ ' ? ' /10' 40(' #10 22"/%' 40'2"'
, !"' 1*' /18' "(%' 40(' &*/75' "%' -&' /"' "(%' 40(' 40'2"' , !"'
&0' (8&&0 ; "' , !-' (!-%' /1"(' 40(' +!"%%%"' &' 0''-."(*!K
."/%' , !"' 2"%%"' 2-'2*/(%0/2"' 0 ; '#7"' &0(8&&0 ; "' 0/%"'
"##"/%"5' -&' $0!%' '"2%-$-"' "/' 2"' ("/(' &0' '"+0', !"'
+-(' ' "
? Q ' D$O@+ #&-@[1E' *#9' U9 d Q!-' 0(*!."/%'
$0-+' $0!%"' #10 .*-"' #"' , !*-' +0/7"' ' 0' $0+#-, !"%'
6*/%"!' #(-/' ' @ ' : ' !' ."'0(' ('4'-/2"'
7&*!%*/' "/#' ' $02-&"+"/%' 2"*80 ; &"' *!%' 2"' , !"'
/*!(' 2*/%' &0' $0 ; &"' ' !$0' /#' -, !"' #(-26%*!"'
' ?7"7' ' ' 5 # ' /' #"' 2"(' #2'-.0-/(' $0+#&-@'
, !"(' , !-' 4"'//"/%' 60'#-+"/%' &"' %-%"' #16-(%*-'"-/'
.7 ' -- ' %*' NN d /' 40'&0/%' #"(' 26*("(' -K
(07"' $"' !/#&-, !"' NNYd #' ' '0/20(' 40!.'#"' &!-@'
+#+"' "%' 40/-"' 4"' "#' #10-&&' !'(' #%0-%' !/' $0+#&-,'
, !1*' /' /"' 4*!.0%' '0((0(-"'' ! ' ; JF' WW' 1!/'
6*+ +"' 40!.' "-&' $0-%' !/' +"/#-0/%5' #!/' %' 0.0-&&"!'
!/' *-(-$5' #!/' +0&6"' !'"!' !/' (2##' 0%5' 21"(%@ @'
#-' ' , !1-&' 2*/#!-%' !/' $0+#&-, !' 1#260$0!/#' 40"' &0'
+-(#' ' $ ' K & ' :-:' %*
' 'O I' (10%%' 02%-*/' #"' &0.-0/#"' , !"' /*!('
.*8*/(' , !"&, !$(*-("(%"' (-(!; -%"' 0!:' 7"/(' $0+"' @'
&-, !"(' , !1' 4"-/"' *' 0' &"' &*-"' #"' &0+0(26"' ' ' $-'
!'
' # $ ' 0%' (7 ' #"' ' $0-+')'
A=7' /1#%0-%' 4*-/%' !(-%#' #0/(' 10/2-"//"' &0/7!"5' *'
#-(0-%' A 7 5' %' ("' $"'-' "/%' ' 0!(' U"!:J 2*+"'
&-*/(' $0+"' "!(' "%' $-(%' %0/%' #10' +"(' #"' (*/' 2*' ('
"1"(%"-%' +"' .&&"' 1&#' ' . - '4' GR
$' ? ? ' D$O@+' "$%@<"@+0/E' "5' 1!/"'
+0/-#"' $%!/' (' NN 0/(' &"' &0/707"' 4*4!&0-"' ":@'
%'#+"' +"/%' !' :2" "++"/%' "&0 "(%' $0+"' !(' "+"/%'
; */' & "(%' $0+"' !("' +"/%' ; #%"
' '0.-I' (' 0+"' !(' "+"/%'
? ' ? ' 7 ' "%' &"(' ($$-:' -
0' !/"' 7'0/#' '#4!%0%-*/' * ; */' "+0!.0-(' 0' $0K
+"!("' ?02"%%"' &0' 2*!' (-2*!/' !"%' ' @
[-&&' "' $0+"' !:' 2-4-*/' &"' $!%' ; -"' /' U&-"' !%' 0/%J' #"'
(*/' $' #"' ' ' (! ' /' ' Y' %' .*!(' (' "'<$0+"' !:'
26"<' &0' 4*(%%#'-%#' - 1 - - ' G' 1"(%' 2"' *-' (-'
$0+"' !:' #0/(' &0' 40-:' #0/(' &0' 7!' "' ' 0! '
"5' :.--' 0' $0+"' !(' *+#&-"' $- "#!' 7'0/#' 2-K
4-*/' "%' +#' "#"' #"(' 02, !"' "(%' 2*' !"' #"' %*!%@'
+*/#"5' -&' /18' 0.0-%' 4*-/%' #"' /*+#' #"(' "' #' ; &"(("(' 4&!('
- !(%"' /-#"' +0-(*/4&!(' -26"' , !' &0' 0("' -/' , !"(' '
, #' ' 7' ' . 'GI' 40'%' j'Y' 16-(%*-'"' #"(' "+@'
4"'!' ' ' +0-/(' $0-%' 4&!(' (*!."/%' "+' %-*/(' &0' 40/K
%' +-+"' $0+"' !:' , !"' #"(' *%%' #"(' 2#&-, !"(' ' "'#0/('
$ ' @ -!-' 1 ; -&&0/%' "(20#' */' $0+"' !:' 40"'
2"/%' ; 0%0-&&"(' ' 9 ' !- -!' ' "/0"#' #"(' %' $0K
+"!:' 40"' ("(' !' ("' %0' "+' "/' 40"' 2*' "4!K
%0%-*/' . - #"' ' "(' +0' , !"(' 2"' 0 ; !'
#1 &-."' %' #64&!' "/' %' (!"' %' !/' (0%-'-, !"' U' 0 ; '
"($*/%0-/' "(J 4&!' 2*/(' $0+"' !:' 1"2-$' ' "%4&!' (20!(@'
%-, !"' , !"' 9!(%-"' ' "G ' #0/(' $ ' @ -!-' O

$-' ' D$O@&!@/#E' /' ' "' +' "' #107'-21&%!"'
$0&!/#"
' D$O@&!@/#E' / ' ' "' +' "' #107'-21&%!"'
+"/#"' !/' 260+4' 0.' 2' #!' $0&!/
? -

[illegible]

< B.:XB2 3 828 :9E J28 H42 .:5I' +2 B:9E2B: 3
3 4 4 58 3:932 + ' + 33 B 39B2 5. 2552 23 ; :42 ; 20
23 ; + 28 E2:' +28 9329B8 JB2.80 + 3 580 e GB29A0
3 + 2580 B 5. 80 +2 ; 5480 B G280 - '
" ' :52' & + '8 (! =7 9'L'+ "@' ' ' ' ; K
+ 2B0 + ; + 'B20 .2+9 0 .2+2 ?9'283 4 58+ ; + B 3'
44952 <2B8:552 4 ; 52532' ' 30253B2B 828 D ; '3 2B8
23 828 ; '42. 580 9 'U'1' '8' 9'8 GG 3 2+ 2
283 + '<B2 ; B20 3 49G:9.'5: B+ ; + 2B20 '
#/' ' ! 4 ; 2 42 ! 5325:5 82 <B:49 8 3 :B3 <29
9 . ;<' H42 : ;< J52I0 3:9@:9B84 58 8:5 . BB:882
E2.'3B: 8 :9 ?9 3B2 ; + 'B28' ! ' 3:0 V L 28
; + 2B8 42 ' ; 8:50 .29A ?9 '8:53 B2.98 = G 392+
+2 ; 253 23 ; + >B2 ; 253 4 58 952 ; 8:5'Q 0 2K
+9 0 .2+2 ?9' 2.32+ ' ; + B 3R E2.' +28<2B8:5528
44 95 B 5J 9*428898 49 8 25 ' ' 3 +2 ; + 28 E2.'
+2 ; 5 83B2' +2 3 + ' ; + GB2 E2.' + '<B 5.2882'
2 Q95 JB J +I 3 B28 < B 8:5' = G 30 +9 ' ; B.=2B 89B
+28 3 +:580 + B2' +2 ; + 2B0 <B254B2 428 + G2B3R80
; B?9253 ; 29A 95' 3 ?9 495' E:B 0 ' $' E'
28<0233 38 .:9B3 8 58 82 B2+ 0.=253 89B .28 42E: B80
:53 +28 ; + 2B80 23 E E253 .: ; ; 2 J258 ?9' 54:53
442A2 ; <+2 ' 4:5523 '<2B8:5520 ' E ; 'IL " *
. 28 42 4 5?9 8 3 :5' 5' ; + 28 49 8 53*: .2' 28
<+98 4B: 38 842 ; <B2882B253 44 3B2 +28 B.=2B8 42 4 5*
?9 8 3 :50 8:98 +2 5: ;' 42 828 ; 2B80 ; 53
; 29A 3B2 8 32++ 328 ?92 89<<+ . 480 9 ' C(Q#e'
3 " : II'@' ' 2 ?9' ' +2 . B .3 B2 49 83R+2 ; K
+ 2B' ! 8 <B25:58 J B42 ' + 'G 882882 B:< E: 8 52
49' ; + 2B0 ' ' 0 S ' 5 52 4 83 5*
J9 3 < 8 882M +28 G:B528 ?9 '8 < B253 +2 ; + 28 49
8 ; <+2 ' +2 8 ; <+2 283 5 .288 B20 +2 ; + 28 52 <253
3A2 J:9 2B30 9 ' 1! ' 1! 'D #-' 7#' K!#'
' ! 5 B28 = ; + B28' ' ' 3 ' 4495 ; + 28 9?92+
@2' 52' ; 4 33254 8 J9 2B2' IL %0 @' ' ; + B20 28*
<2.2 44 B J5 2
-' 'A 50 8' >2 ! +28 42 3 3= 8 .=2E + 2B8 23
; + 39B28 4:9'3B28 5:G+2 2 ; <2B2:B 42 :583 53 5:*
=+20 ' & ' -"'<' R' 9.958 42 828
? + _' JB:988: 253 42 .2 ?92 * 28: 3 42 8' + BJ28
TD 9 ; :85280 9'JWF' ILA E0 8' B E2B 42 828 <2.9*
528 8:5' ; + 28 .: ; < J5:5 283 <+98 49B2 .=:82 23
<+98 5@98320 '< &' R' :53 3 24 2B95J
=:832+ :9' ; 8:5' '+29B8 42<258 <:9B ; 233B2 29+A 23
6+29B8 G 2580 ; + 2B8 23 82BE 329B8 '8 9E23 0 "'
' # 7 'ILBE 6 8' & * 54283 882M ; K
+ 28 428 + EB28 <:9B R 3B:9E2B 3 53 42 G2 9A 4 8.:9B8
?9'8 8:530 ' ' ; Q ; ' 8 :53 4:55 '+2 <B A' .2+2
428 E2B398 ?9' +29B 283: 3 <+98 ; + 2B20 - ' 50 MA'
28+ 5J928 283: 253 ; + 2B28 ' ; :5 '<2B20 '50" C'
>2 8< 8 49 . ; <' 44 ; :9B <B 3 ?92 .=2E + 2B ' :9B
E: '3B:< 8:9 2B30 +2 ; * ; 4283 ; + 2B0 ' !'
' Y ' ' + '49B2 ; 2B2 283 42E2592 5: B2 < B
B2 ; 2428 .B280 8: 253 <<+ ?9 8 B2 ; 2428 4:9A 23 K
; + 2B80 0' = ' ; F' 2 +8 ; + 2B H+2 +8 42
; ++2@0 JB2 '29B 42 E 5J3 580 <293 2832B 25 @9*
J2 ; 253 8 58 93:B 3 ' :9 + .25.2 42 <2B2 '1! - ' /)'
- # '3' 90 <' ""
-' (! ' B:E25J' 23 28< J=' #3 3 +' #)
/ # 3 49 + 3 5 # ' 42 ' ; +2
! _ # 'Q * ; *+ *B2* ; 5/0 :42' 4952
; 5 B2 ; + B2' >2 54:9G+ 2B ' < 8 ; ; 2 <+9*
8 29B8 <23 328 : B.:583 5.28 ?9495 = 83:B 25 : ; 23*
3B 3 8 58 4:9320 ; 8?94 ; ' ; 0 .2 ; 2 82 ; G+20
<293 4 B2 ; + B2 ; 253 '8:5' ; 0 'A '
" ' >?(" ' " ' ' 9 3:52 B <<:B32 .2 ' 2 '+28
<B2 ; 2B8 2 ; <2B29B8 42 : ; 2 E 253 3 42 <+98
82.B23 ; 8 E 3* + E .9 ; + B2 ; 253 E2.'4:9M2
8 B8^ 9 .7 '0# '& ' >4 'E90 .280:938*
. 0 +2 B:' 42 B98820 23 02' 4 'E9 .: ; ; 2 :5 52 E: 3
J9 B2 +28 B:80 :B3 ' ; :5' 820 4 58 ; ' .= ; GB20
9 .: 5 42 ; :5 290 := .2 ; ; 2 ?9' 'J *
J5 ' 429A G 3 +28 E25 3 . 982B ; + B2 ; 253
.: ; ; 2 . < :5 E2.' B25.20 - ' 233 44 BJ25*
/' '82<3' A
-' 'AE 0 (' 2 425 82 4:3 E: B 23 .:5325 '
E2B8 +9R 25 B 25 <+98 ; + B2 ; 253 ?92 82 + 52
2983 :5?928 283 ' ; 0 ' 3=' N%
-' (! ' ; + +B20 23 +2 89 A2 ; 253 <B:E25J'
; + B ; 253 28< J5' ; + B ; 2532 3 4' ; *
J+ B ; 2532
! ' * ; *++0 ! ; :9 ++ 280 235:5' * ; *R2/0
' ' ' 0 =2M +28 : ; 580 B 9 :5 42 82BE 329B80
4428.+ E28 << B325 53 '95' 829+ 54 E 49 :9 33 K
.=28 '95' 82BE .2 <9G+ .? 24283 +2 8258 <B ; 3 '
# 0 B 89 32 + 82 4 3 42 3:9328 +28 <2B8:55280 < K
B2538 :9 5:50 ; 3B28 :9 82BE 329B80 ?9' E E253
8:98 +2 ; ; 2 3:3 =2 ' 42 + ' ; ++2' :9E2 ; 2*
; 253 42 + ' ; ++2' IL 5' 3 + 20 .=2M +28 JB 5480
3:9328 +28 <2B8:5528 33 .= 28 9' 82BE .2 44952
; 8:5' ' ; +2 4495 . B4 5 + 'IL 0 42582 ; G+2
428 <2B8:5528 4495' ; ; 2 8 5J0 .: ; ; 2 <2B20 ; B20
25+ 53J B2B280 :5:+280 52E29 0 .:98 580 23.' 53B2B

#0/(' ! /"' $0 + -&&"' 40"' 0&&-0/2"' ' %(-%' &"' 26"$'#"' &0'
$0 + -&&"' 0' $0 + -&&"' #"' (0' $" + + "' /' ' "40(' ! /"' $ %"
#"' $0 + -&&"' 'S 0-' .!'%' 0/26"' &"('9*! '(' #"' +0' $0 + -&&"' "/@
%- '"' ' #/#' ' -/'M'NN 0"' ":%"/(-*/' /(%' ! -%(40"
%"(' ."'%! ('! " '(* + + "(' %0' $0 + -&&"' ' 9 '& '-' '
"%' 022*'#' U(!"' ! /' + +"' + "'-#-"/J -/%'*#! -'0-%
#0/('&"! '7 *7'046-"' U#"(' 4"! 4&"(' #"' 1 ! '*4"J &0'
+ + "' ! /-$*' + -%8' , ! "' '"4' ("/%"/%' # S '&"! '"20&"/@
#'-"' '"%' &"! "' 0'-%6 + %-, ! "' ! /-$*' + -%8' , ! -' %"/#!"'
0! :' / * + ; '"! :' * ; 9"%(' #"' &"! '(' '"&0%-*/(' + !%! "&&"('
$*' + "'0' #"' 2"(' 4"! 4&"(' #-. "'(' ! /"' -+ + "/("' $0 + -&&"'
' ' -24*0' -' 'NN 0'7'0/#"' $0 + -&&"' 6! + 0-@
/"' 1"/(" + ; &"' #"(' 6* + + "(' 16! + 0/-% '%*! %"/%-"'"'
' .*-' ' -+'0-"' #"' $0 + -&&"' ' ("' #-%' #"' &0' ' (("+ ; &0/2"'
, ! "' *'%' * ! ."' "/%' "' &"(' #-$& '"/%(' + "+ ; ' "(' #!! /"
+ + "' $0 + -&&"' 'NN * / /"' $0 + -&&"' $0 + -&&"' 6*/ / %"' "%
0! ((-' $0 + -&&"' *22! 40/%' , ! "&, ! "' '0/7'#0/(&0'(*2- % '
-26"' (! $$-(0 + + "/%"(' ; * / / "' $0 + -&&"' '
' ' -&(' #"' $0 + -&&"' ' "/$0/%' #"' $0 + -&&"' ' 9"! / "'
6* + + "' , ! -' "(%#! / "' ; * / / "' $0 + -&&"' ' -/ ! 2-*'9"! / "'
6* + + "'#"' $0 + -&&"' ' ' * ' -("%%"' "(%' ! / "'$- "'
#"' $0 + -&&"' , ! -' 4"! %'%'*! ."' + -' ! ' + */(-"' ! '5 '%9"
/"' .*-('40(' , ! "' .*%'" 4-/"' &! -' */.-"/ /"' 9'
0 G6' , '(2' ' 'NN -&'("' #-%' , ! "&, ! "$*-('40"' + *@
, ! "' -"' ' 1"(' !/'9"! / "' 6* + + "' #-(%-/7! "' ' "'
2*&*/"&>' !-'9"' (0-(5 2"' , ! "' /*! (' 044"&*/('('/*! ('
0! %'"(' ! /' $-&(' #"' $0 + -&&"' ' ! /'#"' 2"(' + 0! .0-(' (! 9"%('
, ! "' &"! '(' 40'"/%(' 9"%%"/%' #0/(' ! ' ' "7-+ "/%' 4*! '
(1"/'# ; 0"'0(("' ' ' ' " ') " , ' - ' ' ' '
'M' ' */("-&' #"' $0 + -&&"' .*8' ' ' !H "('
4"'(*//"(' #"' + ' + "' (0/7' .-.0/%'(*!('&"' + + "' %*-%'
"%' 4&! (' 40"/%(' 9"%%"/%' #0/(' 'NN * /'%' 4 '"' &0' + '"' "%' &"('
"/$0/%('(0-(("<' ' (*/'#"(%-/' 2"%%"' -/7'0%"' $0 + -&&"'
'0 4' 'M' "(' #-"! :' "%' 1"+ 4"' "! '(*/%' 4&!('(
, ! "' +0' $0 + -&&"' "' ' '0' Q!!"(%@2"' 6' 4'*4'"' + "/%'
40'&"' , ! ! / "' $0 + -&&"' ' (-/*/'! / "' $*' + "' #"' '*80! + "'
*-&' */' 2* + + 0! #"' "%' *#' */' * ; -%3 " "
F' ' " '0 + ' ! *' %' ! ' 4' ' - .*!(
/"' .*8"<' 4-! ('.*%'"0! 7! (%"' $0 + -&&"' ' "' -"!' , ! "' .*! '
("' ."< .*! (' 0#*4%(' 4*! "' $-&&"' 9 'U ' -.' '
' "' #"' $0 + -&&"' + '"' #"' $0 + -&&"' ' 2"&! -' 2"&&"' , ! -
"(%' + 0'- "' , ! -'0'#"(' 'NN *!%-'/'#"' $0 + -&&"' '
&"' $-&('&"' $' '"' , ! -'(*!%-"/%' ! /"' $0 + -&&"' 5 -&'0'#'*-%'0'
1"-2 + '0%-*/'#!'("' .-2"' + -&-%0-'"' & 0!'#"' $0 + -&&"' '
+ 0! .0-(' (! 9"%' , ! -'#"(*&"' (("(' 40'"/%(%' 9"%%"/%' #0/(' 'NN /' $0 + -&&"' '
, ! "' &"! '(' 40"/%('9"%%"/%' /%' #0/('(' 'NN /'$0 + -&&"'
26"<' ' 0! ' + -&-"' ! ' #"(' (-"/('(' * + + "' -&' 20! (0-%'
/'e + -&&"' '* /'&"' .-/%' 0."'%-'('(. ' 1 ' NN 0'(0-/%'
0 + -&&"' ' S*("46'&0' -"'7"' "%' 1"/$0/%' S (!('NN /"'
(0-/%' 0 + -&&"' ' %0 ; &"0!' , ! -' ' "4' ("/%' &0'(0-/%' 0@
+ -&&"' ' , ! "&, ! "$*-(' 0."2' (0-/%' S"0/' ' /"' (0-/%'
0 + -&&"' #"' 0460"&' D 0 + -&&"' 40"' !/"' + 09!(2!&"E'
Ri' "' + "' #"' #"*-%' ' "' #"' $0 + -&&"' ' .*8' # '
' -&(' #"' $0 + -&&"' &"' $-&(' , ! -' "%' (*!' 10!%*'-%' 40@
%"' + "&&"' ' MF' "("/$0/%(' 40"' ' 044*'%' 0! :' 40"'/%('
!(' ' + '0'-"<' .!('0!' ' '%"<' ; -"/%%#' %' &0'$0 + -&&"' '
0'4'*$"((-*/' /"' ! /"' #!0! %0/%4&! ('/' 2"((0-'"' , ! -&
%0-% # 9 6 260'7 '#"' $0 + -&&"' 1*22! 40-% ; *0! 2*! 4'
%' "' "S"' .*! (' '"' .*-(' "/$-/' 26 '"' %"' %-(0%"'
$0 + -&&"' 9 ' c0-"' -' 'Y' "($0 + -&-"(' (*/%' 7 / '0@
&"' + "/%' 4&! (' / * + ; '"! ("' #0/' (&"' 4"! 4&&"' , ! "' #0/('&"('(
0! %'"(' 2*/#-%-*/(' '*-0- -&"' (' ' ' / ' "' 2-"&
/ -%%%' ! 9*! ' (&"('/*! ' ; ' ' "(' #0! ' %(' ! ' ! ! ' ' ' ' ' '
' > "'. ' S!"/'(0-(' U#"(' 2604*/(J , ! -'(*/%'
; */(' + 0'&('Q!-' + "'*/%'#"&0'$0 + -&&"' # ' S
' ! ('/"' #-"! %' + "' #"' (0/-0-(' ; ! *"' *8"<' 2"%%"'
4*! &0! *022*! '-"'0. "2%"! %"(' 4"%%"' $0 + -&&"' 'NNAF 02"
2* + 4*(' "' #"' 2"! :' , ! -'(*/%' #! ' + + "' (0/7' 40"' &"('
+ "(' ' "(%#"' $0 + -&&"' #"' '* ; ' ' /"' $0 + -&&"' ; *! '@
7"*-("' "' .-%, ! ! "&&"' 0&&0-%' ! / -'0(+0-(' ' 0-(0' - ! / -(' 0/2"
6'&0' '*80&"' $0 + -&&"' #"(' %!0'%(' ' < ' '& '
' ! "/'#*! %'(*/'(40/'26' %-"/(' -"! 0'4' 40' #0/(
(*/' 2* / (0%-"' #"(' 2"'%' "/' (*0%- ! -' "' + ' #"' 2"'%(0/@
&0'(' ! '2"' '/%/'' 0%-*/'0%'(' %*0' 2*! (' #"'(' %"! &"'(*/%'
0 ; 0-%'/%-"'-("' ' , ! '#' #"' (0/2"' ' (-* ! ! %-"' ' (/'0-
, ! 0-% (' #* 0/-0/*! (' #"/%-"%&' ; 0' (*/ ; ' ; 0/2"'
-0'0'0' ((-' "*#"// 0-(' #&"0!!'&&0"' "%' 0"!"%' &"!-"' '
%-2!& '0"&"' 2"' ("/(' 2* + + 4*("' + 0 ! -"'(' .*-! ("'0&"@
&"' + "/%' 2"&&"' 0%"0' ' "!0-"' ' ! %0' 0&&0"' 4-! %-"-
"/' 40'%-2!&-"'"' #0/('2"('*' + "' 0"'"' 2"! #"' + 0/'(-"' 0-0"'
40"' &"(' , ! "' #"' '0' ' 0"' ! ' ' 0' "' %0"' 0&&0"' ' %0' 0/'
0'%' 0!0/' "'(' ' (!'"' %"&"' 0&& 0' *' 0%(' 0"/%' '
/-'"'!(10 ; 0%%' ' 'A 9A 'N 0 + -&&"' 7/0/%"'
.*8' ' ' "' + "' #!6-(%-' "' 02%' #"' $0 + -&&"'
%'0-% '# $"/(-$'2*/2&!'"/%"' *!-('O ' "%'&"' '*-' #1 (@
407/"' '"/' AM 'NNBF *!(' &"(' '"&-7-"! :'#!! /' + "'
*'#'"' #!! /"' + + "' 2&0(("' #!! /' + + "' + */0(@
%"'"' NN *!(' &"(' 46-&*(*46"(' #!! /"' + + "' 2*&"'
"(' 46-&*(*46"(' #"' &0' $0 + -&&"' #"' &0%*'/"' 2"&&"'
#1 '-(%*%"' N' !+' '* ' ' ' *' NN)F' ' ("
#-%' #"(' 26*("(' , ! -' *$$'"/%' #"(' 0/0&*7-"(' #!*'-7-/"
*! #"' ' ' "("' + ; &0/2"' "(' #' !' 0((' /"' /' ("/%(
40(' #!! /"' 0! ((-' ' ; "&&"' $0 + -&&"' , ! "' 2"&&"' 4! *'
&0%-/' U -7-&"' '2 '$$$$ ' H "' + "
#16-(%*-' /0%! "&&"' ? *%' -/%'*#! -%'"/' ; *%0/-, ! "' 40"'
?07/*&' "%'0!9*!'#16!-' 7 / '0&"' + "/%' 0#*4%' ' /*/@

829+2 ; 253 4 58 + 'G:3 5 ?92 ; 8 988' 4 58 + 'M::*
+:J 2 <:9B 4 8 J52B 428 JB:9<28 42 J25B28 + 8 < B
428 . B .3 B28 .: ; ; :58' 28 ; + 28 5 39B2+28 42
>988 29' ' ; +2 428 + G 28' 28 8 5J28 23 +28
; \ 8 2B ; 253 429A ; + 28 4 83 5.328 4 58 4:B4B2
428 ?9 4B9 ; 528' 28 < 53= B280 +28 :5.280 +28 + :*
< B480 *+28 J9 < B480 +28 :.2+:380 +28 82BE +80 +28 ; B*
J 8 23 +28 .= 38 52 :53 ?94952 ; ; 2 23 ; .= 532
; +20 ' J, ," ' 3' E 0 <' RA' 4 58 !
' 28 5 ; 9A 23 +28 E J 3 9A 52 .: ; <:8253
?94952 ; ; 2 ; +2 23 +29B8 5 +:J 28 8:53 25
JB 54 5: ; GB20 ' = ' /' >,/' 3' A 0 <'
F70 4 58 4*! ' + R '952 ; +2 253 B2 42
+29B8 ?9' << B3 253 '.2332 :B ; 2 H.B9. B2810 V
'2 ' E0 0 'IL ' 2 + 'G:3 5 ?92 23 42
+ 'M::+ :J 2 ; '+2 ; :3 42 ; +2 84283 44 G:B4 3 G+0
+ ' < 88 ' ' + ' .+ 88 . 3 :5 428 89G83 5.28 .= ; *
?928 ' ; +2 428 82+8' IL F '82 4 3 988' 25
J : ; 3B 2' 95 :5 42 89B .28 . B .3 B 8 28 < B
952 <B:<B 3 ' .: ; ; 952 49 <+ 5 3 5J253' IL 95 :5
42 .:9BG28 R 53 95 . B .32B2 J : ; 3B ?92 :9 5 *
+R3 ?92 .: ; ; 95' ' ; + 2 428 .:9BG28 49 82.:54
42JB2' IL YF 2B ; 2 42 JB ; ; B2' ; +2 42 ; :380
2582 ; G+2 42 ; :38 << B325 53 '95' ; 2 ; 2 B 4 . +'
0 ' 25 B 5J 80 " '25 3 + 250 " ' + 50
. *>< 25 JB2.0 << B3 255253 '952 ; ; 2 ; +2
-' ! '>R' 3 8 ++ '25 ; +20 ?9' 93 988' 8 *
3 8 32 42 .2332 ; 8:5 ?92 ; : 0 $! '= '49
' 5:E' "NNN' :.93 :5 E . 29820 < B.2 ?92
54 '<+98 <:9B 58' 4 B2 8:5 8258 <B:<B20 '
2 "'<' B' ' ++ 3 4 B2' >R' 3 8 ++ '25 K
; + 20 23 ; ' ; +2 93
-' ' ? ' ? ' ; 2 82 4 3 ?9 54 :5
.:58 4 B2 42582 ; G+2 428 54 E 498 42 ; ; 2 8 5J
?9' E E253 +28 958 ' . 3 ' 428 93B28 ' + ' ; +2
B:R +20 ; < B +2' ! 8:5 82 4 3 ?9 54 :5 .:58 *
42B2 + ' ; +2 25 8 '89..288 :5 4 58 +2 32 ; <8 23 25
8 '3B 58 ; 88 :5P +28 ; 8:58 8:9E2B 528' 5 = : ; ; 2
283 42 G:552 ; +2 ?9 54 + <B:E 253 44952 K
; +2 ?9' :..9<2 95 .2B3 50 B 5J 4 58 + '8:. 3 P +
283 42 G:552 ; 8:50 ?9 54 + <B:E 253 44952 ; +2
= B 4 3 B2 ; 253 4 83 5J922' IL 4 . 4 ; 2 B2 ; B?92
?9220 ?9 54 :5 < B+2 428 JB 5428 23 5. 25528 B .28
42 B 5.2 23 428 < R8 3B 5J2B80 :5 82 82B3 ; : 58
:B4 5 B2 ; 25+ 49 ; :3 ; +2 ?92 49 ; :3 ; 8:50
23 ?94 9 : :53B B20 +:B8?94:5 < B+2 428 5: 258 B2.8
:9 428 5. 253 : ; 580 :5 2 ; <+: 2 42 <B B25.2
+2 ; :3 ; +2' ' ; +2 428 # B .+ 428' ' ; +2
428 3B 428' ' ; +2 428 8 B8' 2332 B2 ; B?92
54 'B 25 44 G8:+9P . B :5 E: 3 :88923 <<+ ?928 +2
; :3 ; +2 9A JB 5428 B .28 428 32 ; <8 ; :42B528
-' # 'A E0 8' 2 93 B9398 42 ?9' ; +2 . *
283: 30 ' '%N0 E2B8:' 2325 B 9.958 9K
3B28 = :832980 H= 32+80 +:J2 ; 25381 25 +2 H+ @ E +2<:9B
+28 . B23:58 23 ; +2 4:9 4 3 <B2E:83 23 @9B 80 !
B 4G' &1 ' ' ' <'"F' LLAE0 8' 4 B.=2*
E28?92 42 E2552 283: 3 42 + ' ; +2 23 ; 8:5 428
B8 58 42 ; : 20 ' ' ' '3$$'
<' %70 4 58 ' 5E B:5 3B2532 E +238 ?92
< J280 42+ ' ; +2 49 49242 :9BJ:J520 '
3' ' 0 F 0 4 58 ' 53 R 42 ; :9B 0 ?92 .2
82 '29B +2 B23 53 42 8 ' ; +2 <:9B .2 ?94 + .=2*
E 9.=: 3 ; :9+3 G 250 0 * ' 3' 0 0)%'
'O I'(' ; +2 44 B.= ; G 930 <+98 8' 25 0 < 8
E 9309, " ! ' B 5J: 8 2:BJ2 42 + ' ; +2 428
B2B28 ; 529B80 '9 " 'DC' 'N 0 4 58 + *
"
' B:E25.' 3 28< J5' '
'49 + 3 5 ' ; +20 , , '82BB
E 329B0 42 4:8?92 '82BE 329B0 ' ; 8:50
.2 ?9' 2A<+ ?92 '- '283 +:' 58.B 3 '
' ; 8:50 49 B 4 . + ' <:82B? + '3B 58 3 :5
49 ' 58.B 3 '3'+ 3 52 283 5:B ; +20 2A' #
, , ' 2 8258 ' ; :+:J ?92 ; :53B2 < B ?92+8 42*
JB 8 +2 ; :3 '283 E259 '8 J9 28 +28 ; 2 ; GB28
42 + ' ; 8:5 95 8 < B +28 + 258 49 8 5J
3 ! S0 ' D$0@ + -@ &"-&-' "$-@<1' '
+ * ! -&& "(E' 6' "' + "' #"' $0! 2*/ / "' -"' "' #-%' #! ! /'
$0! 2*/' , ! -' , "! %%' %*! 9*! 1 *(' + 0/7"'
' ' /2' $'0!7' , ' $0 + &-, ! "' #!'
&0%' ' $0- + 'D.*8' # c ' &1 %8 + *&*7-"E
3' ! ! ' D$0@ + -@ -@(+ 1' $' + *! -&& "(E' '
' 10 + *! 1'#"' &0' $0 + -&&"' '#0/(' &"' &0/707"' #"(' $*! @
'- '-(%"(' H
! 'Q * ; *3 /0 ' 'NN i' ! 5?92 44 + ; 25380
4 58 952 E +20 4 58 952 <B:E 5.20 23.' ' >' 293 4 *
82332' <BG8 E 53 + ' ; 520 ' -' ' 'F' 5
E25 3 42 3:9328 +28 <B:E 5.28 25 JR<32 <:9B .=2*
32B 42 ?9: ' E EB20 <:9B 3B:9E2B ?92+?92 8:9+ J2*
; 253 4 58 + ' @ J929B 42 .2332 ; 520 ' ' 1 '
2 'G$' %C' 5 E2BB ' < B ?92+8 8:58 3 '8 J2 <B *
E:R 5.2 9' :B3 42 + ' ; 52 253B23 53 4 G:54 5.20
' $' " ' ' 253 3 +2 B .=2 ; ; 20 <B28 42 E 8

[

M ' ' 1

2 :B3 0 <B.9E ' + ' ; 52 5 ; 29 428 3B'8:B80
(' K # 'S' ' ; 52 E 5?9 3 25 5 +2 .:9B J2
48J :.G2+: 8 230 <B_8 952 55 '2 253 2B2 4&95
8 J2 :4 +8 82 8:93 5B253 < B 29A* ; ; 280 +8 9*
B253 :G+ J28 42 82 B254B20 " ' > .29B80 CN ' .32
42 ; 520 .:58< B 3 :5 3B ; 22 253B2 428 J258 B K
.=28 23 <9 88 5380 8:98 :9 8 S 0 <:9B :< 'B2B 428
823328 .3 .28 ' ' '82 <B254 ?92+?92 : 8 <:9B
; 5?92 4& + ; 25380 '25 < B+ 53 4&95 829+ 5*
4 E 49 ' B288 < B + ' ; 520 +2 +:9< GB E2 +2 4 5K
J2B0 ' +:9<' ' B 2B ; 520 82 <+ 54B2 49
; 5?92 : ' &:5 283 ' 2 H+ ' . J +2I + ' .B 2B K
; 52 =2M + ' :9B ; '8 'E: 8 520 ' ' +0 - '%'
B 2B ; 52 89B 95 '3 8 42 G 40 82 4 3 428 E B28
?9 / 3:93 25 B2J:BJ2 530 82 <+ J5253 42 +29B ; *
82B20 23 42 .29 '?9 '82 <+ J5253 8 58 B 8:5 ' 0 ?92
.2+ ' 283 ; + 42 .B 2B ; 5289B 95 '3 8 42 G 4& 9
2330 + ' , ' ' :.3' CC '@L '82 4 3 588 ' 428
<2B8:5528 ?9 '82 <+ J5253 42 ; 5?928 42 .2B3 528
.=:828 288253 2+28 3:93 25 B2J:BJ2 53 4& 93B28 ' >2
2:5.+98 9@:9B4&=9 '3:9328 ; 28 B28 8 'E:98 5& *
E 2M 49 G 40 @2 E:98 : B B 8 49 ; 25 '@&25 ' E 5J3
; +2 G: 882 9A ' E254B20 @2 .B 2 ; 52 89B ; ' 3 8
42 G 40 8 E ' ' :.3' NC ' L B254B2 952 <+ .2 < B 2
; 520 82 4 3 4&952 <+ .2 G+:?942 ?9 ' 5 3 < B 82
B254B2 932 42 E EB28 ' L J B254B2 ?92+?9&95 < B
; 52 :9 < B + ' ; 520 +9 'B23B 5.G2B +2 54.28*
8 B20 +9 'B2 982B 42 & BJ253 <:9B & ; 252B)' .: ; K
<:8 3 :5
0 - ' (' 8 0 ! ' $9 54 + ' ; 52 BGJ520
:5 ; 29B3 42 ; ?9 54 + ' 4 82332 B2J520 :5 ' 42
+ '<2 52 4 82 <B:.9B2B +28 + ; 2538 ' 4 82332 283
; : 58 JB E2 ?92 + ' ; 52 ' 4 823320 B B234 4& + K
; 2538 ; 520 G825.2 4& + ; 2538
- '# 'S 6 8 ' 9 8 + H>:82<=I 9 25 J <32 82M
<+98 ?9&25<2B2B20 ' J9 B4 828 < B258 42 + ' ; 52
; 2B20 9 ' ' 'NN ' 52 ; 52 E 53 + 3258
E 40@23 49B 4 3B2 8 580 < ' < ' 'LLA 08 ' 5
JR<32 83 29A ; 52 <:B = B :5 .= 83 2B0
0 , ' ' M' LA E6 8 ' 552 9 < 8 8 .= 58 $92
0 'E +2 423 83 283B2 <B 82 25 429A 580 2 52 983 < B
; 52 :9 < B 25J 58 J23 58 0 2, * ' F ""
' ! J8 ' 28 5J+: 8 5.: ; ; :4: 253 2A3B2 ; 2 ; 253
B 8 ?9 ' .: ; ; 25.: 3 4 .B 2B ; 520 A ' ' ' ,'2
.= ' F ' 2 +:5J @2952B 42 32+ ?:58 +28 ; 520 $9&4
&0 < B 5 3: ; G: 253 ; :B38 42 ; 520 ' 9 ' JF
: ' U ' :9BJ9 J ' 3 5 E2B5 80
< . B40 3 <B:E25^0 ' 49 + 3 ' .3 '
' 44B E4 42
%' ? $-'Q * ; N*M *34/0A ' ' 4:+: '8 ; 2 '$9 *
+ 32 42 .2 ?9 '283 ; 29A0 230 25 ; 9E 82 < B30 B2*
5: ; ' 952832 ' ' ; :8 32 42 .2B3 58 <2B8:55 J28
= 83:B ?9280
' 6 ' 3 ' ! ' 42 ! 7 ' ; 29A
+ ' Q *5 *@&@0 0 ; 0 L ' .3 :5 42 52B
' + B2 49 529B ' L ' :93 +2 29 ++ J2 4&952
<+ 532 ' L 288 . 3 :5 428 <+ 5328 :9BB J2B28
' ?' -
'Q 3*5 2*M:5/0 ' ' 2 ; <8 : ' &:= 52
: 58
' ' #
'Qc *5 +/0 ' 'L 6 29 '?9&:5 +9 ; '49*
B 53 + ' 59 3 9 8: ; ; 23 428 3:9B80 4 &253B42 428
<:B380 +2 +:5J 428 <+ J28 ; B3 ; 28 ' =2B.=28 8 58
G:988:+2 95 5 + <B28?92 5 ..288 G+20 ; ' 88 '
0 'Y ' 83B2 593 +2) &=: ; ; 2 H+ ' +9G2I0 25 '3: '
3:93 283 ; R834B2 * 95&28 < 8 8:5 5 +0 23328 ; :+28
+929B8 2 8 E253 < 8 ; B B +28 B9 38 42 828 8929B80
! ' ' ' '@ B 2A3258 :5 ' 28 ?92 :5
E25 '89B +2 = 9+ 428 ; :53 J528 B ++2B 42 +: 5 25
+: 5 428 5 9A ++9 ; 480 6 '2 '9 ' 0 B '
' J ' 3=2528 43 53 .: : ; 2 +2 5 + 423:932+ 32BB20
2+2 2B 3 4. 32B < B3:93 + 'J : B2 42 828 .3 :580 !
0 ' ' C>, / '3 'E9 0 < ' F7 0 4 58 7
' ' B: 82 + 532 ; 2 4:53 :5 82 8253 4 G:B4 428
E 882 9A 9 AE 6 8 2.+20 +28 : . 2B8 J454B 9A
<:B3 253 3B: 8 5 9A 4 & BB 2B20 9A?92+8 & : ; B +
25 @:93 3 95 A4 4 + 'JB 542 =952 +:B8 3:58 +28
E 882 9A E 253 95 5 + 42BB 2B20 ' ' 5 NF%0
@&298 :B4B2 4& ++2B 4 :.=2 :B3 ; 2B ' ' , 1 '
HE 882 9 42 6 B 5J1 23 42 +7 ; 252B E2. ' ?9 3B2
93B28 E 8 2 9 '4 2++2* +20 <:9B R '@: 54B2 ! ' 42
B29 ++R @2 52 &R 3B:9E '<: 53 :5 ; 2 B <<:B3 '
<:9B3 53 ?9& +3B:9E 3 4 B24 B2 ?9& + R 2 +3 3B: 8 *
0 ' ; 9A 9 ' , 1 ' 3 @&25 8 N32B 429A 448 ?92 @2
b0 898 ?9& +8 G+288 253 8 '44+ . 32882I0 > ' ; ' ' -
NFN0 4 58 + ' 2 E 882 9 ?92 & ; B + ; :532B '
<:B32B '+2 < E + :5 . BB4 G+ 5. ' 9 JB 54 ; 43 23 +28
?9 3B2 5 9A0 C '4& : 3 NF '0+ E ' 0 3 3 0 B3 'C '
' † ' 8&283 3 : 0 < B 2A3258 :50 <:9B + 532 ; 20 B2*
E2BG4.2 ' 9@:9B4&=9 '+28 8<2.3 .+28 @:9 ; + 2B80 + '
:9+2 428 .= B8 4:B 80 +28 ; ++ 2B8 42 5 9A ?9 '
+ 253<254 53 + '59 3 +28 JB 5428 E ++280 2B ; 253

95 <+98 G2 9 8<2.3 .+2 23 55:5.253 <+98 4& G:5*
4 5.2 ?92 +28 <+98 GB ++ 5328 . B4 ; :3928 428 5:*
5 B?928 49 AE 6 8 2.+20 9 ' , ' ' 28 K
5 9A ?92 :9 8 S '43 G+ 3 +2 <B2 ; 2B 4 58 B380
?9 '52 8253 < 8 ; 4 ; 2 25.:B2 .:5598 4 : ; 20 4.+ *
B2B253 <254 53 + ' 59 3 + ' E ++2 42 432B8G:9BJ0 5 '
* ' ' ' ' B2 5 +0 +9 ; 2B +2 5 +0 :9
; B.=2B 42E 53 E2. '+2 5 + <:9B J9 42B ' L "6 J '
2 ?9 ' 82B3 42 J9 420 42 +9 ; 2B2 532++2.392++2 '
28 JB 5428 E4B 348 42E 5B253 93 53 42 B35 9A '
& 42 428?92+8 :5 82 4 B J2 ' 4 58 +28 B2.=2B.=28
8. 253 ?928 '8 ' ' = ,
- '# 'o ı 8 ' +:4: B30 ?9 'E E: 3 25 .2 34 ; <8*
+4049?92+ @&982 25 3:93 .2 4 8.:9B8 .: ; ; 2 4&95 K
5 + <:9B ; 2 .:549 B2 4 58 +28 :G8.9B 348 42 .2332
= 83: B20 C ' 4 58 +2 8 ' * ' ' U
' 8* 3 ' ' 3 + '
49 JB2. ' < E P0 GB ++ 53 .: ; < B2M
3 ' ' Q *5 *B *:*3@0 8 ' ; ' 2B ; 24&= 8*
3: B2 JB2.?92 ' : ; ' 4& 5. 25528 ; + 28 JB2.?928
B23 B428 4 :583 53 5:<+20 23 ?9 ' R ' :B ; 253 952
.+ 882 4 < B3 28 5 B :328 :9 ; 88 253 428 G 5
?9 2B80 428 G: ; ; 28 42 G9B2 90 428 4 <+: ; 328 23
428 =:8<:4 8
' ?' 4 '*!' 4 ' / * + ' #! ! / ' , ! 0 '%-"" #
:583 53 5:<+2
$ 'Q *5 *3 *\&/0 A' L 6 $9 ' .B: 3 E: '
428 58< B 3 :58 4 E 528 ' 29B8 :< 5 :58 H428 5 *
G <3 8328I ; 4+428 9 . +E 5 8 ; 2 :53 3 5 3B2 +28
544<254 5380 ?9 '5&:53 <: 53 29 42 =: ; 28 < B ; '
+28?92+8 :5 E: 3 +28 3B2 ; G+29B80 J258 543 '28 '?9 '
.B: 253 ?92 3:9328 +29B8 B4E2B 28+29B 8:53 58< B4280
' ' 2 52 4& 5J>23 ' '283 EB 82 ; G+ G+2 ?92 ! =:K
; 23 93 4& G:B4 5 3 ?920 58 '?92 B: ; 3E2 '+2 93
4 58 +2 .: ; ; 25.2 ; 253 42 + ' J92BB2 E +20 9 '
' B2 ; ' 7 #]$9 ' 283 5 ; 4 4&95 M2+2 :93B4
<:9B + 'B2+ J :5 5 <B44 . 329B 5 3 ?92 'L B 2AK
3258 :50 ?9 '82 < 88 :552 4 &2A.28 <:9B 952 :< K
5 :50 3+: ; ; 2 5 3 ?92 42 + ' + G2B34 'U ' '82 4 3
428 < 88 :580 428 4:.3B 528 ' 5 M 2+2 5 3 ?92 ' 28
4:.3B 528 5 3 ?928 ' 5 E 5 3 '<:+ 3 ?92 253 ; &4*
3 +2B 4 .2 3 G+2 9 5 3 ?920 9 '4 'F' ' +8
52 82 < ?9253 < 8 49 42E: B 5 3 ?92 2 82BE B 42
E .3 ; 2 9 <:9E: B 428<:3 ?920 ' 5 ' F ' "
"6 @ ' ' ' 2+9 0 .2 2 ?9 ' .B: 3 E: B 428 58< B "
3 :58 4 E 528 ' ! : '42.2 ' 5 3 ?92 H! =: ; 23I 25.25*
82B+28 <B283 J28 Y9 '4 '-' ' N 2+9 0 .2+2 ?92
+2 5 3 8 ; 2 B2+ J 29A 58< B2 ' 28 <= :8:<=28 8:53
+28 ; 442. 58 428 ; 28 4:53 +28 5 3 ? 28 8:53 +28
2 ; <: 8:5529B80 9 ' 0 ' " ' 1= ' B ' L 5
B 5.2 :5 '4:554 <B3 .9+ =B2 ; 253 '5: ; ' 9A
<B:3283 538428 4E25528 '4+&: .. 8 :5 42 +29B B4E:+32
:B8 428 <2B82.93 :58 ?9 ' 2.: ; < J5 B253 + 'B2E:K
. 3 :5 42 &44 3 42 53 ' ' ! :53B2E2+ 52 3B:9E '< 8+28
5 3 ?9288 ' 848 'B249 B2 ?9& + & E 3 . ; :5+29B
E 3 4:554225: ; 0 < B:2?92.= ?92 3B:9<2 42 .28
<B:3283 538 B4E:+348 E 3 E2. '29A ?92+?92 <B432549
<B:<=432 :9 <B:<=4328820 ! ' YYQ ' JQ ' :98 E2B*
B:58 4 58+2 8 4.+2 42 :9 8 S '<+98 42 ?9 B 532
; ++2 5 3 ?928 <4B+B < B + 'B:92 23 4 58 +28 ; *
; 28 230.2 ?9 '283 B2 ; B?9 G+20 + 5&R 25 :93 < 8 95
829+ ?9 '52 ; :9B93 25 G4 88 53 290 < 8 95 ?9 '
; :53 ; 3 + ' ; : 54B2 G+28820 9 ' B2 ; ' M '
2+9 '? ' ; 29B3 <:9B 95 .9+32 9A ; 8 ?9& + .B: 3
EB 0 :9 <:9B 95 .9+32 B 0 ; 8 4:53 + 5& '< 8 42
<B29E280 283 95 5 + 40 23328 ; :+28 '56 YB '
' B 2@ 3258 :50 .2+9 0 2+2 ?9 ' '952 < 88 :5 2AK
.288 E2 <:9B ?92+?9&95 :9 ?92+?92 .= :82 ' N ' 5 K
3 ?928 4 ' :B52 +2 5&R 3B:9E2B:53 <293*43B2 < 8
H4 58 +2 ' . ; ; 253 B2> +29B .: ; <32 ; @2 8 <+98
42 . 8 49 G:5 J:93 ?92 42 +29B 89 B J20 9 '0 '
8 & ' M ; B8 AM ' >& ' G 25 <2:B ?9& + H+2
: ; ; 253 B2 89B :B52 +2I 5&2A. 32 42 J! 428 .= *
; 29B8 42 + '< B3 428 5 3 ?928 . B + ' + 334B 39B2 '
988 '+28 8 2580 "G ' 0 ' ' ; B8 AM '
% '@ ' ; 2 4 30 ' &=: ; GB20 42 .2+9 '4 58 +28 ; 58
49?92+28 ?9 3B2 E +238 82 3B:9E2 3 B495 8
'6 ' .' ' 2 8:53 3:98 8:5J28 23 5 3 ?928
:+ 28 H5:8 4428 (! " 2910 ' YY ' JQW
- ' R9 ' 3 , ' 42 ' 32 ; <+20 + 29
.:58 2B4
0 ' Q *5 *3 *M40 342/0 # '
2 5&283 < 8 58 '?9&:5 B ; 252 ; ' <29<+2 4J B4 23
5 3 84 42 <:+ 3 ?92 :9 42 B2+ J :50 ' " ' ' ! '
C !# ' " ' :X
'Q *5 *3 *M4/0 9 ' ' 254B2 5 3 ?92
<:9B 952 B2+ J :50 <:9B 95 < B3 ' + +28 5 3 8 ' < B
828 <9G+ . 3:58 9B G:5428 ' L 2 5 3 82B0 " '
2E25 B 5 3 ?92
- ' ! ' 5 3 82B0 ?9 '5&283 5 '4 58 9B23 4B2 5 '
4 58 .=2+230 5&283 4 58 +2 4 .3 :55 B2 42 & . 44*
; 2 ?9& '< B3 B 42 &44 3 :5 42 & F N

' # $ ' *8 '
\' ' D$0 @ / 0 @%-@<" ! 'E ' ' ' #*&*@
7-(+ " ' "&! -' , ! -' $0 / 0%-("
I ' # $ ' -
? ' D$0 @ / 0 @%-@(+ 19 ' ' 'N F '& ! (-* / '# '
$0 / 0%-, ! " ' #"' 2"&! -' , ! -' 2 ' *-% 0 . * -' ' # " (' - / (4 - '0%-* / (' # -K
. -/ " (' 1" (% ! / ' . '0- $0 / 0%-(+ " ' NN F "2%" ' * ! ' # * 2%' - / "
$0 / 0%-, ! " ' / ' " ! % ; - " / ' # " &0 ' 4 " - / " ' ' ## % + - ' " 2" $0 @
/ 0&&(+ " / 0- ((0 / % ' N Y d -(4 * (-% - * / ' #1 " (4 ' -% # " (' $0 / 0 K
%-, ! " (' < " & " ' * ! % ' # 4 * ! " ! / " ' ' " & -7- * / ' / ' " / % " / #
0 ! 9 * ! ' #! 6 ! -' 40 ' " $0 / 0%-(+ " ' ! / " ' $ * & -" ' ' " & -7- " ! (" ' (* + K
; ' " ' "% ' 2 '0 ' "4&& "5 21 " (% ! / " + 0&0#-" , ! -' (" 707 / *
2 * + + " ' &0 ' 4 "%-%" ' . # ' * & ' ' 9 ' ! * " ' -
" $0 / 0%-(+ " ' " (% ' &0 (! 4 " ' (%-%- * / ' 2 " , ! " ' & " ' %'0 / (K
4 * ' % ' " (% ' &0 $& " . ' " ' # " , ! " ' &0 ' 07 " ' " (% ' &0 ' 2 * & " ' " "
1 ' " ' 4&! (' 7 '0 / # ' " 0 " + 4& " ' # " $0 / 0%-(+ " ' " (% ' 2 " & ! -' # " %
; * ! ' 7 " * -(' # " 0 ' -(' , %%-' 2 * ! + ' " / % ' 0 ((H- / " ' ' # 7 * ' @
7 " ' ' 9 " % " ' 40 ' ' & " ($ " / #% ' " (' + " %% ' " " / 4 - " H ('&0 ' / ! -% ' # "
&0 ' 0- / %@ 0 '%6 # & " / & -' & " ! ' ('2 * / 2 -% * 8 " / (' , ! -' / ! 0 0- " / &
4 * - - -% ' ' &0 ' + " ((" ' -/ ' % ; ' " ! ' " ! (" + " / % ' & " $0 / 0%-(+ " '
" (% (! " (* / ' ## 2 / ' #! ! / ' ; * ! % # " ' 1 ! ' * 4 " ' 10 ! % " '
" : = ' ' A ' , ' ! ' (* ' 9 ! -&& ' AMB ' NN d %@
%026 " + " / % * 4 - / - %' " ' " % . -* & " / % ' ! / ' 40 ' % - ' ! / " ' * 4 - K
/ - * / ' " % 2 ' " 0& ; * % #%0-% ! / ' # " 2 " (' . '0 - (/ 7&0 - ('
, %%-' ###0 - 7 / " / % & " ((! 4 " ' (% - % - * / (' " (% , ! -' / 1 * / % 40 (
& " $0 / 0%-(+ " ' # " 4 ! / -' & " ($0 / 0%-, ! " (' 9 ' $ * , '
, ' . " (' " 70 ' # (' (# " ! : ' + * / # " (6%%0 " 6 # (
(! " . * ! (' S " $0 / 0%-(+ " ' 6 " ! ' " ! -' #! ! / ' 7 '0 / # " ' # . * @
& ! % - * / ' & " (4 " 2%02& " ' # " . * % ' " ' 7 & * - ' " ' * &K
& " 2% - * / ' % ' && ' 4 ' A ' b
' # $ ' *8 ' C ' GG
%' ' D$0 / @26 * / E ' ' ' "%-%$-26 ! ' 4 * - / @
% " (* ! 0 ' ' * / # -' , ! " & " ($ " + + " (4 * ' % " / % ' " / ' 4&02 " # "
; * / / " % ' * ! 40 ' @# " ((! (& " ; * / / " % ' ' H
e ' # $ ' - * ' / * + ' #" $ " + + " #-+- / ! %-N ' # "
- b
%' ' D$0 / @26 * @ / #@$E ' (' 'S *'%, ' # "
4-%%((" ' - " , ! -' (" ' % #1 " / % ' " + " % (' 0 / 26 * / / "N% " (' 04
20$# ' 0 ! ' 26 * 2 * &0% ' P
$ ' ' D$0 / @#0 / @7 * E ' ' ' 0 / (" ' " (407 / * &3
' % ' * - (' % " + 4 (' " % ' ' + * ! . " + " / % . -$ ' 0 . "2 0 * 2 * + 40 @
7 / " + " / % ' # " ' 20 (%07 / "%%" ($ 0- " # " ' 2"%%" #0 / ("G E /
9 * ! 0 &" ' $0 / #0 / 7 * ' (# . -&&0 / $ # " 9 " ! / " B@ f 784%- " / (
1 " : # 2 ! %0- " / % '0 . " 2 ' & " ! ' (' 20 (%07 / "%%" (' "% ' & " ! ' (%0 ! % @I
6 * ! ' (' # " ; 0 (, (! " N ' ' ! 1 ' , 7 : . - '
"%%" (407 / * & " ' Q ! -' (* ! & . " ' " ' / ' #0 / (0 / % ' (* / ' $0 / K
#0 / 7 * ' #7 " ' ' " (' 4& - (' ; ' * ## (' # " ' (0 ' ; 0 (, ! - / "
9 , * ' C ' ' NN ! ' " , ' " (' $0 / #0 / 7 * (% '
$ ' (407 / '
\' ' D$0 / @# ' * @ (IE ' ' ' #? / ' # " '
? 0 #070 (20 ' ' g
' D$0 @ / IE ' ' NN I ' " ! -&& " ' (#26 " ' % * + ; # " ' # "
10 ' ; ' " ' N i ' * ! % " ' * ' % " ' # " ' ## ; ' & (' # " ' $ " ! -&& " I ' * !
16 " ' ; 4 (' , ! " ' * / ' '0 + 0 ((" ' 4 * ! ' '$0- ' " &-%- " ' " 0 ! : P / -@
+ 0 ! : ' & Y ' -7 " (' . " ' % " (' * ! ' # " ((#26 # " (' # " (' 4&0 / 9 " (
, ! -' / " (* / % 40 ((4 #2-0& " + " / % 2 ! &%-. # " (' 2 * + + ' 0 ' 5 ' ! $@
'07 # " ' " (' % " ' (' " (, ! " ' &0 ' 4 * + + " ' % " % " ' 2 * &<0 ' &0
$% . " ' " %2 ' 0 / " ' "% " $ " ! -&& " ' 21 " (% &0 ' + " ' 26 * (" ' " % * /
(1 " / ' (" ' # " -/ # -$$# " ' + " / % " ' 1 # 70 ' # ' # " (' 4&0 / 9 " (&0
$0 / " ' * ! ' &0 ' $ " ! -&& " ' 2"%%" ' 4&0 / % " (' # -$ -# " ' % " ' # " '
2 " && " ' 2 " %%%" ' 0 ! % " ' ' C $ ' ' ' H
'NN F ' " + " ' # " ' 9 0 ' # -/ 07 " ' 1 " / . " & * 44 " ' # " &0
$& " ! ' " # " (' 0 / # + * / ' " (' " % ' # " (' " / * / 2 ! & " (
:R '
$- $- ' : 8 5 " ' NN&I 16 " ' ; " # ! '
4 ' # $0 ! # " ' % ' + - (" ' " / ' + ! & " ' DJ F Q ! - '0 ' 4 " ' # ! ' (0 $ ' 0&@ F
26 " ! ' ' & " ! ' ' $0 / # " ' NJ 0 ' " : % " / (-* / ' " 0 ! % # $0 / # "
$ ' 9%" ' D$0 @ / #I 761E ' ' ' ? " (! ' " (407 / * &
# " 20402-%#4 * ! ' & " ((! ; (%0 / 2 " ((" " ; " (5 " && " # , ! - . 0 ! %
' 4 ' # (' # " ' " * ' &-%' " (
H ' # $ ' (407 / '
' D$0 @ / #E X ' * ' NN ' * ! + " ' ' "% ' " % * ! + " '
16 " ' ; " #! ! / ' 4 ' # $0 ! ; # 4 * ! ' &0 ' (0 / - " (#26 " ' 0 / " '
" 1S9 " ' ; " ' # " &0 ' & ! < " ' / ' ' NN ; (* & ! + " / % ' * -& ' ! /
; * / % " + 4 (4 * ! ' $0 / " ' 0. " < @. * ! ('2 " 7 ! " 21 " (% , ! "
$0 / " ' 3 ' - & $0 ! % ' , ! " ' 9 0 " . * ! (' 1 " : 4& - , ! " ' " %$0 -
4& ! (' ; " &&" ' 26 * (" ' #! ! + " / # " ' 21 " (% " ! / ' # ! ' $ * - / '
" / ' ; 0%-$ * 0 / % #0 / (' ! / " ' 4 '0 - " ' - " 5 " ' * , ! ! * / ' " / ' (0 - %
%0 / % ' * / ' (0- % $0 / " ' ' # ' ' ' 9 ! -&& ' MA
' d 0- " 4 " # " ' &0 ' $ ' 0&2 ; " ! ! ' ' 7 '0 / # " 6 & " $0 / "
& " ($& " ! (' NN 0 " " : % " / (-* / ' 0%% # " ' ' 1# * &-%#! ! / " # " %" $$ "
# ! " % -/ % ' " (* & -& 0 ' $0 / # ' 2 "%%%" 2 * ! & " ! ' ' / ' & - ; ' " % -@
/ 07 " 4 ' #2 * 2 " ' , ! -' + -/ " ' &0 ' (0 / %# " # " (' 9 " ! ' (' 7 " / ' ! '
0 . 0 / % # ' + 0 % ! -% ' # " ' 1 7 " ' %% $0 / ' " &0 ' ; " 0 ! % # # " ($ " + '
+ " (' &0 ' $ & " ! ' ! ' (' 0 / / # " (' ' "
O O ' YF " $0 / " ' ' L ' ' " # " " (0 $ '0 & 2 ; " ! '
(* / ' #2&0% " (' $& " ! ' (2 ! ! - " -&& - " ((" $0 / % 4 ' * ' + 4 % " + " / %
' 0 ' " " : % " / (-* / " -& (" # -% " # " (' 2 * ! & " ' (" ' % ' #! ! % "-/ %
* (. - " (' 2 * ! & " ! ' ((" $0 / " / % ' - 9 ' ' - ' Y
" & " (' % " + ' ; " < $ ' $0 / " < @. * ! (' * ((5 0 * -& ' &0- # " " %
% ! 10- + " ((' 0 ! %0 / % # ' = , ' NN "%%" $ " + + "
2 * + + " / 2 " ' (" $0 / " ' (0 ' $0 / " ' (0 ' ; " 0 ! % # 2 * + + " / 2 " 0

[illegible]

! ' ' H b b'

K ' " '@ '+"!(' ;8'42 3* 2 ; ' 0 7 4 58 :'
' S 6 8' 5J2 82:=2 25ER H4 +.+2 ;253I'
0#!5' ' 4 ' MB
'3 ' :B ; -/7 3'E ++:5 - 3'<B:E25^
- ' ,&' -/'8' ; P -&' /- ' -/7
F' P.3+' -/3'28< J5'23 3 +0 -/!' 5' '4:55'
<:9B 23R ;:+:J 2'+2 J:3+' - 'J453' -; ' ! 8 +
R' '95' ;:3+35 <29 9834 (! 7 ' 5J29A ?9'
9B '3B28*G 25 4:55 ' -/ 7B3 23 .: ; ; 2'+2+ 3 5
' 988'95 89G83 53' B' ('8J5 53 G*
.28 G:9BG2 :5'3B:9E2B ' '+2'B 4. +42 5:8 ; :38
B: ; 58 8 52 B2.:9B B' ' & ++2 ; 54' & ++29B8 +283
<:88 G+2 .: ; ; 2 .2+ '283 BB E2 <:9B" 4& 93B28 ?92
+2 ; :3+35 23+2 ; :3 ++2 ; 54'82'8: 253 B25.:53B28
23 .:5 :5498
S ' Q 5*@24 @24*M& / ";'L#0 $9'283
'2 5'42 5J2' >& ; 2 ; 29A 95'B9 882 9 ' $9&95
3:BB253 44G:B44'?9 4&95' .:9B8 :B J29A :9+2'<+25
42 JB E 28 892 95' 32BB 5' 5J29A ?#' ' '
343'?9& ; M 5' 93 42G B?94' 89B+2 32BB 5' 4J +23
5J29A 42+' 3 E 2 ' < B33 .: ; ; 2 95' 4.+ B
<:9B+ 'E+2 9A 82<3 ; :53 J528 E:. ' B ;2'D)'
' 7' ' J' >& ' 3'+2 <B2 ; 28 < 8 23+2 <+98 <"*
5 G+2 4 58+2 + GRB 53=2 :G8.9B 23 5J29A 42 ; 28
.:5 288 :58 >'>')##' 1!- ' L]' :5E2B3 42
5J2 25' < B+ 5 428 <2B8:5528' 2 <B28 ; 2'E:R 53
5J29A .: ; ; 2 95'<:9B.2 9 ' # '@ ' :-
' -'# 'S 68' 9 8'< 88 58+2 ; B238+2 42B5 28
42 3:58 E2.' JB 542 4 .9+3" '3B E2B8 42 &2 9
G:92982 23 5J2982 $ '1 #'
' ' :5<2 <B:E25^ -/! 3 28< J5'23 3+'
-/! !
! 'Q 5*J *;&+ ' ' BGB 882 9 42
! 4 J 8. B 23 42 ! 9B .2 ?9' .:53 253 95' 892 2A*
3B4 ; 2 ; 253 E454529A
' Q *5*:5/ ' ' 5. 25 32B ; 2 42
J92BB2' :B32 4&43254 B4 42 82BJ2 ?9&95 E +23 42
.=2?92 GB J 4242. E +2B 2 :9'4&5 532B 2<:B3 3 '+'
" '428 ; 2598 G J J28 42+ 'GB J 42 <254 53+' ; B*
.=2 428 2?9 < J28 42 & B ; 32 23 ?9'82BE 3 '+29B
B2 :G82BE2B +29B :B4B2 <:9B 4E 32B+' .:5 98 :5
- ' (!' :R'
' Q *55 5/ ";' ' <RB98 55 25
28<2.2 42< < 2B 4& JR<32 42 4 A <:9.28 42 + BJ2
' ' 3' - - 7 '5: ;'<B:<B2 42 2 ; 5
'Q *5:B/ ' ' 2B ; 2 B9B+' N52 25
G:8" '.+ B2*E: 2 89B +2?92+ :5'@?332 &=2BG2 9*
2G42 +28 : 58 +'+9M2B52 23.'<:9B+2' B2 82.=2(
-' ?' -#
4' 'Q *5:5/ '#6 2.2 42 4B <
3:+2 42 8: 2B 2 898<25492 9 G:93 4&952 +5.2
4&952< ?922 3?9 <:9E 53 8244<+:R2B82B342 8 J52
42 B ++2 ; 253 L 2B ; 2 42 G+8:5' BJ2 GB .2+23 ?9'
<254' 9 GB 8 4B:3'# ' 5.25 32B ; 2 42 ; B 52'
:;'?92 :5'4:55 3 9 :54' 23 9' .:5' 5 4B 29B
4&952 E: +2 ?9' +:332 9 E253 .: ; ; 2 952 G 55 2B2
q' +:B8?92+'E: +2 283 . BJ9 2 ' ! 5<9+2 ?92
b' +28 <B43B28 <:B3253 9 GB 8 J 9.=2 +:B8?9&+8 : Z*
4253' 2 5:5'4:3 "3B2 42 +' ; 4 ; 2 43: 2 J92 +&4
3:+2' '? 7 7#' 28 429A <254 53 8 42 42BB 2B2 42+'
E ; 3B2 4&95 4E ?92 4&95 B.=2E4?92 4&952 G 55 4B2
93B2 G 8 ; 5.=2'<254 ; 2 ?9&:<'<:B3 3 9 <: *
'23 89B3293 25' ++2 ; J52'L"' B 88 ; + 3:5
<2 9'<254 532 ?92 +28 3 9B2 9A +2 'G:29 8 :53'8:98
+'J:BJ2'L 2B ; 2 4&: ; 3=:+:J 2' ' < 2.2 42 <2 9
.= ; 92 B:9J2 23 592 ?9' <254 8<98+'J:BJ2 42
.2B3 58 :82 9A 5:3 ; ; 253 49 4 54:5'LN' ; 28
.:B5 28 ?9'J B5 88253 3B 58E2B8 +235253+2'< + 8 42
.2B3 58 .3 .48' 28 5:58 42+'G +2 52'hQN" 2B ; 2
42@B'3 B 5 B2' :9 2 42<:+8 '+'< B3 2<:83 B 29B2
433 G:9+23 23 9 <+'42+'<2 9 49 G:29 '23 49 ; :9*
3:5 8 39 '6'+'< B3 2 5 +B 29B2 49' .:9' 2 5:5
. .=2 &2BJ:3 49' .=2E +
-'# 'S 68' 28 B ; 28 "'3B 3 42 258 :5 ; 3
+G 83:+23 5:56 '82 +3 B ; 2B (> B =:B5 ?92 2 3
[+2 B2+ J :5 2 42 E23 E2B +3B28< B 3B2 8:5 9B 59+
; 283 2B' '"'@' ,&! '4 58 '1&#!-)'
'/7 '3' ; <' "C7' ! :9+3 2B2 ; 253 ' 4 '8:B*
.2 532 G + ' ' 3 <9 8 +2 5:5'23 &283:+2 D -'
F3' 3 <9 8+2 ; 83 :5'+2 5:5' 9 GB 8 825 283B2
?9' 8252 2 83 525.=2 1&#' " ' . - ' <' "'
'S 68' :5 G+ 5.' 5:5'H49'3 9B2 9 25+2E 53 9K
B:<2 283 <+98 ?92 52 J2 e 52 * ' ' U % 0
4 58
' ' 8*+ ' - ! 'G 542 42 & 5.'=' ++2 ; '
- ! 'J:3= - ' .: ; < B2M +2+3' - - 7 'QE:R
?E' 23+2 JB2.' ,
'f' ' 'Q *5:5/ ' ' 2B ; 2 42 .= B9BJ 2
8< .2 42 .R+ 54B2 3 E2.' 952<: J5'2 42< ++2
253:9B42 4&952 G 542 43B: 32 23 :B32 ; 253 82BB 2 ?92
&:5 2 ; <+:R 3 4 58+2 < 582 ; 253 428 B .39B28 42
+'.9 882 23 42+'@ ; G2'L 9A 5:5 5:5 3
E2< 52< .2 42+5J2 <+'< 25 <+98 29B8 4:9G+28

B:9+42 '<+ 3 23 B2<+ 2 '828 2A e ; 348 ?92 &:5'
<+ . 3 253B2+2 ; 2 ; GB2 B .39B4 23+2 5:5
-'# ' !J8' 28 3:B.=28 :9' 25:58 8:53 328
42 G 83:58 42 JB:8829B 4&95 4: J3 X?9?+8 :5*25E2*
+:<<2 42< +2 <9 8 4&95 42 ; R+5.29+ ' ' F
4:53 :5 253:B3+2 +28 G43258 QE:R' BgBOB 5.2552'
;253 - #9'
'Q 5*32*M 2/ 8' 'L 0 5.25 8R5:*
5R ; 2 4& ; J 5 3:5' 53 8 2 8 J5 3 93B2 : 8
& ; J 5 3 :5 23 :5 52 82 82BE 3 J92B2 42 .2 ; :3
?92<:9B 2A<B ; 2B .2332 .9+34 42 & ; 2 ?9'B2?: 3+28
:G@238 8258 G+28 ' 6' - 'L 5
.2 8258 + 'E 2++ 23 ?92+?928*958 &4.B E253 43R ; :B
+:J ?92 ; 253 <= 53 8 2'L ' 2 53 8 2 < B+&.29*
EB2 42 ; J 5 3 :5 8 58 B4+34' #29B2982 ; 253 :5
B2.3 2 89B +28+29A .2 ?92+28 J4:JB <=28 :53 8:9*
E253 3B .4 42 53 8 2 4 58 +29B . G 523
& 'H!/# & 'L 432 42 53 8 2 3432 42 <9B2
; J 5 3 :5' 5 <2 53B2 3 95'<:B3B 3 42 53 8 2
?9'5&283 4& <B48 9.95 ; :42+8 ' &'
- ' 23 3 <:B3B 3 42 53 8 2' ! 8 25 3432
42 ; :5 B2292+ # '0!## 'L :G2 = G 3 42
53 8 2 B:G2 = G 3*?9'5&283 < 8 .:5 :B ; 2 '+'
; :42 .:9B 532 89B3:93' &95 :B ; 2 B2J+2 ; 253 B2
23 ?9&:5 ; J 52' 5 8= \:' 5 8 GB2 42 53 8 2'
5 4 3 ; 4 ; 2 4 58 B ; 42 49 4B < 42 53 8 2
<:9B 428 J52B 49 4B < <+98 5 ?92 .2+9'?9'283
:9B5'< B 3 3' L 5:G@23 42 53 8 2 :9 52
53 8 2 952 .=:82 .9B 2982 8 5J9+2B2' L' 5
5: ;'42 53 8 2 95'5: ;'?9&:5' ; J 52 42 <B25K
4B2' 9 <:B328 95'5: ;'42 53 8 2' L J' ! '4 3
42+' J9B2 4&952< B8:552 ?92 :5' .: ; < B2 '95
:G@23 42 53 8 2' +2 ' 952<23 32 J9B2 8 58 9*
.952 B2J9+ B 3R 95' ; 5: 8 42 53 8 2 2A3B ; 2 ; 253
.: ; ; 95 '?"' ' ,&!"' +233'% <' R
4 58 -,4 'L 0 8<B 3 <258"2 4 2'H 29A S?9'
& ; :9B+8. 'B J+2+' 53 8 2 ?# '@ ' A3'
9'+:J 8 4&952 2 : '@&' ; ' 59J8 2 'A
2?9&95 25 53 '4 58+' 53 8 2 B ! -'
+5& E:92B '@ ; 8 ?9&+283 ; 242. 5 8& +82+2 ; 23
25' 53 8 2 ?9<E:98 52 <B2 2M .= .95 95 G 3:5
! ' ' C "' '7' %' 2332 B25 8 2 H B2 428
E2B8' 2 828 5: B28 E <29B8 3B 9G+' ; ' 53 8 2
'@ ' ' :98 8: ; ; 28 3:58 38 5 39B2+2 ; 253
.: ; ; 2 95 .2B3 5 :9 3= 5 25 '?9'8&23 3 ; 8
4 58+' 53 8 2 ?92 3:98 +28 E 882 9A '+9'<*
< B325 253 +28 C!-" '' !#'U E: B 25
53 8 2 E: B 4 58 & 422' 28 ; 288 29B8 :5325 5K
2 8 2 42 5:98 4:552B +28 ; 28 428< 248 H+28 R :+:58
<:9B 42582BI '0# '#"'@' L"" :+:53'
< 88 J B2' >2 9 8 25 53 8 2 4& 4 ; B2B &=:5*
5 323 '42 .28 ; 288 29B8 8 E' MA 53 8 2 ; &'
<B 8 42 ; 2+2E2B +:'67C' '2 ; ; 2 8& 3 3 ; 82 '+'
53 8 2 42 82 < B2B 5' YMA L 53 8 2 293
4 B2 9@:9B4&=9' 95 4 8 B 8 5J9+2B 95 J: 3 < 8*
8 J2B' + ' 29' +' 53 8 2 4& 2B '+' = 52 8'
53 8 2 49'49@29 49' G +0 +9' ' < 88 0 '
& ' - ' B:R2M*E:98 +2 ; :542 G 25 5K
.25^' ; ' 53 8 2 283 ?9& +283 32B 2 - -
"' S'+' 53 8 2 8':5'?9&:5'25' 'E:+:53 ' 5
>.29@'283 <+98 ?9 88 53 ?92 3:P >2+2' ; 52 ' ; '
53 8 2 ' '-' '>2@32'4 8 ; :+ ?92 @2'
E29A ?92 39 E E28' ' ; ' 2 ; 3 8 2 23 ?92 @2' 52 ; 2
89 8< 8 ; B 2 E2.' 3:'<:9B 8:9+ B B 328 B24 528
! 'C"' ' 7' ' 8<:82B 42 3:93 82+:5'8'
53 8 2 '0#!5'N' :8 ?9&+ 3 23 4 3 '8'
53 8 2 ' K 'L MI :E+3 < B3 .9+2B' 2
3:98 +28 E 8 J28 '5&R 25 E 3<: 53 '8' 53 8 2
.: ; ; 2 +2 EN3B2 NE' % ' =' @ 2 E:98 .B E2M '
; ' 53 8 2' ' '+H!'42 B J5 5 42EB= 3G 25
B25E:R2B 3:9328 +28 53 8 28 B9 529828 ?9'82BE 53
.=2M +9'< B ?9 B3 2B "' R @9 5' NF ' &283 +' 5K
3 8 2 428=: ; ; 28 ?9' ; 23+2 <B A .=:828 B*
E:+28 .&283 .2332 53 8 2 ?9' 3 E EB2 .253 *
B 2B8 ?92 @&2 ; <+: 2 .&283 2+2 ?9' ; 2 4:552 952
G2+2 ; 8:5 9=' .= B .: ; ; :42 428 .=2E 9A
@ !7(' E: B 428 53 8 28 .&283 E: B 428 J: 38
2A3B :B4 5 B28 ?9'52 8:53 < 8 42 49B 2 53 8 2
25' .2 8258 283 ; : 58 ?92 G M BB2B 2 23 ?92 . <B .2
' & ' - 'LN' +82 4 3 4&95 ; :9B
< 88 J2B' ! 8 & ; 53 ?9'E:98 .= B ; 2 23 <:9B ?9'
E:98 GB' 2M 2 E:98 283 <BG8 3:93 ?92 .2 ?92 E:98
E:9+2M 52 ; 9E 82=9 ; 29B 95 <29 42 @+:98 2
5' 3 882M 8:9E253< 882B+' 53 8 2
; "' :5' ; :9B 5& 3 3 ?9&952 53 8 2 +28 5K
3 8 28 82 < 88253 9 0 ' #5' MI < B3' +
H B:5I 82 <B254 42 53 8 2 <:9B 952 B 5.= 2
5: ; ; 2 .3 " " '1 7" ' ' ' #' "F' 2332
4 5J2B2982 .:?92332 5& '<: 53 3 5 +3B2 428 53 K
8 28 23 5&'@ ; 8 58<B2 ?92 42 JB 5428< 88 :58
'?"' ' ,&!"' 3' +233' 8: < ' " 4 58
' C' <B .2 G:93 42 $92+2 53 8 2 E:98

'<B 8^' 23 =: ; ; 2 ' 428 53 8 28 B 4 .9+28' 5
.=23 '.25325 2B428 3B:9<28 42 ! R8 2 $9&95 JB:8 42
; 93 5 8 +93 < B 53 8 2 \ )K # '+ L 2
< 882B +' 53 8 2 4&+52 .=: '0 8 3 8 B2 8:5'. K
<B .2' ' 2 ; <+2 R 53B 8:+'4&25'< 882B 8 ' 53 8 2
R ! 'H ' '3: L 53 8 28 ; 98?9 28 G M BB2*
B 28 3:93 ' 3 8 5J9+2B28' 5 4 3 ?92+? 2 : 8 25
.:5E2B8 3 :5'< B3 .9+2B2 428 53 8 28 ; 98?9 28
; 8@ ; 8 :5 5& '2532549'< B .2 ; :3 428 G M BB2*
B 28 4&=: ; ; 28 4&95 B 5J 89< B 29B ?9&:5'5&:82 .:=*
4 ; 52B .: ; ; 2 +2 4 3+2 .3 :55 B2 42 B E:9A
' ' & ' - 'F6 2B <2 42 <2 539B2
9EB J2 : 3 :5' '89 E'8:5'. <B .2 23 8:5' ; J 5 K
3 :5 25 8& B 5.= 88 53 428 B J+28 $28 B G28?92^
8:53 428 53 8 28' 2 3:93 ; 2< B93 8'G M BB2 ?92
; '<B2 ; 2B2 4 2 93 4&25E:R2B .=2B.=2B 95'<2 53B2
<:9B 25 B2 952 53 8 2 c + ' 6# ' "7
' 2B ; 2 42 ; 98 ?92' 95 :5 4& B8 <B 8 J2+:5'+2
. <B .2 49 .: ; <:8 329B 23+28 253B '29A < B 428
3B 58 3:58 :9'B 3:9 ; 2++28 :&283 .2?; :5'5: ; ; 3
93B2 : 8 < :3*<:9BB ' 53 8 2 89B+28 B8 42 9 +K
+ 9 ; 2 2++ <:9B< 5:'23 E+:+:5 < B 8G:B52 23 42
B :3' 53 8 2 82 4 83 5J92 42+ '825 32 4:53
3:98 +28 ; :B.2 9A 8:53 889@233 8 '428 B2J+2'.2B*
3 528 < B+ '+G2B3 '?9&2+ 2+ 882 9 .: ; <:8 329B
4 58+' ^:5'42 3B 32B 8:5'89@23 '5&283< 8 5 *
.288 B2 ?92 +2 3=2 ; 2 25 8: 3 .:559 ! :M B3 '428
53 8 28 89B 428 ; :3 8 .: ; <:8 8 3:93 2A<B28
7 2 4 3 428 ; :9E2 ; 2538 4&95' .=<E + ? ; 'E293
J B .253B2+'E:+:53 '49 . E +2B' 2 .=2E + '428
53 8 28'L 6 +3B'49 +29B23 +:B8?9 3 283 8 *
E:55 .9 3 23 <B 3 ' 3B2 32 53 'g 0
-'# 'S E6 8' H 28 G 328I :53 3 53 82<2 ; 253
53 8 2 23 ; 2 ; B2 428 .=:828 5J + 2B28 >
< & 'V77' 28 .=:828 42 ; 3=2 ; 3 ?928 8:53 .:J5928
< B G83B 3':5 R ; J 5 3 :5 23<= 53 8 2 ? '38
!J8' 3 58'<23 3 '<23 3 :9 39 ; <8 42 .2+2 .B: 8*
.25.2 5 39B2 <<B2832+' 53 2 23 2532542 ; 2 ; 0
b7/?' - M 80H K '"'1&' ' 7' LLAE 6 81+2' V
3B E +428 JB 58 @:9 ; 28 4& 8< J52 ; &283: 3 < 98
<:B3 G+2 ? 2 +2 B2<:98 42 B 5.2 : +'+' 533' 2 ; 2
3:9B ; 2532 <+98 ?92+'<2 52 + 'AAAE ' 3
.:53 592B253 +:5J92 ; 253 .2332 E 26 8 58 ?9& + 8& *
<2B^93@ ; 8 ?9'2+2 283: 3 4:53 +253B '2<'JB 542
53 8 2 H95@9 3942I <258 53 ' - !75' 1
S' ; ' 53 8 2 +5&283 B 25?92+'.:939 ; 2 52 .2
828 53 8 28 - ' JaE ; B ?92 ?92+?9&95'<B254
53 8 2 42 & ++2B G 33B2 +' 93 ?92 .2+9'?9'+2 82*
.:542 ' "F' 6' g
-'# $ ' B2. Q< EB .+ .3 :5 4<82 ; :53B2B0' <*
< B 3:5 42 V<E :. E 8 G+2 42 ^U Ec3E ' :5 ; 2B
GB +2B QE:R' . # #
3' 'Q 5*3 *M *8 / 8 3' 2:+:J 82
; 2' 2 53B2 42 53 8 28'L .B E 5 ?9'283 _58
+28 +233B28 .2 J92+2 53 8 832 283 4 58+ <2 539B2
'?";' 5 <2 53B2 95'+33 B 329B 53 8 832
-'# $ ' - ' 0
bH 'Q 5*3 *M * / 8' ' :9B828 98 3228
.=2M +28 B G28 4 58+28 328 23 ?9' .:58 83253 *
8& +5.28 42 3:93K' +'E 32882 42 +29B8 .=2E 9A '
B2E25 B 89B+29B8 < 8 E2.' 42 JB 548 .B 8 25'42*
.= BJ2 53 +29B8 B ; 28' 0 M
-'# $ ' 2 < B +3 3B2 +2 ; :3 3+25' - '
53 8 2
3' 'Q 5*3 *M * *8 / ' ' 2.3 B2
.=B 3 25'?9' 8:9325 3 ?92+2 =B 83 5& E 3 B2E 39
95'.B<8 =9 ; +5'?9&25 << B25.2 23 ?92 8' ; :B3
5& E 3< 8 3'B 2+2
-'# $ ' B2. ^XE VW VB5+3 42 / S ' ; J K
5 3 :5 QE:R' G
b F !"# * ,'Q 5*3 *M* / @2' 53 8 8 5:98
53 8 :58 Q@9K @8' 53 8 2 ?92 5:98 93 8 :58
' '!233B2 4 588' 53 8 2 ; J 52B' 5' ; 2 3
53 8 2B +2 .23E2 9 42 8:9: # '@ '5'
: ; ; 2 + +29B< 53 H 9'< B+: ; 253@ 42 82 53 8 2B
3:9328 .=:828 89B ; :5 89@23 @&23 8 2A<:8' '+' 42K
5.2 428 958 '+'B R29B 428 93B28 N ' 9 ' 3M
-'(' !J8' 'G2 93 '33:98 25 53 8 :58+28
:B ; 28 '5:83B2'<:832 .28 5: +E2 9A<:9B 2A.9*
?92 5:98 53 8 :58 428: .28 5: +E2 9A<:9B 2A.9*
82B 5:83B2 52J+ J25.2 25E2B8 +28 5 39B2+8 : .28 5
+ C"
-' D(!' -
! 'Q 5*3 *8 ; *J :*B 2/ '
'6 B3 42 B2 E: B 428 53 ; 28 2&283* *4 B2 42
B2< B9+3B2 428 J9B28 +9 ; 529828 9 82 5' 4&952
:G8:9B 3 '<B: :542 + 5&'.: ; ; 25.' ' 3B2 G 25
.:559 ?92 E2B8+' 5 49 AE 6 8 .+2' 2+'8:' 3
9' ; :R25 4&952+ 32 ; 2 ; J ?92 ; :G +2 ?9'E 253
:B ; 28 +28 ; J28 89B 952 3: +2 ?92 :5 E:+3 < B
42BB+ B2' : ; 2 .28 ; J28 JB 54 88253 ' ; 2*
89B2 +2 :R2B 8& +: J52 42+'3: +2 2+28 :53 B

42' 8& E 5.23' 89B' +2' 8<2.3 3.9B* /LL ' B' 5 +:J 20' 25+ 33NB 39BW0' G984&24238<B:49 38' < B428' ; :R258' <4' :5' 3B: ; <2' &28<B 30' .: ; ; ' + ' 53 8 ; J:B 2' 3B: ; <2' :2+
K ' ' << B 3 :5' QE:R' e 3 G
* 3' _(:<'WJ < B+2B' P' < B 2B' 9A' 534 ; 280' <<2+2B' +28' 534 ; 28'
' # N >$ ' Q 5*3 *8 ; *J:*B *\&/0' ";
' ' $9' << B3 253' ' + ' 53 8 ; J:B 2' << B 3 :5' 5*
3 8 ; J:B ?92'
3' e $ $++ ! ' Q 5*3 *8 ; *J:*B *
\2* ; 5/0' "5' + ; 5 'B2' 4&952' 53 8 ; J:B 2
* - ' , C' - / ! # =7 ' 23' +2' 89 A2' #
3' ! ' Q 5*3 *8 ; *8\ :*<&/' :9'
! ' Q 5*3 *8 ; *3:*8\ :*<0/0' ' '
2B ; 2' 4&:<3 ?92' # 2= 52' ?9 ' : 2' & 8<2.3' 4&+ ; 2'
<:B32' ?W' 8&:9EB20' 23' 4&: 4' 82 ; G+2' 8:B3 B' 95' 534 ; 2'
* B 88 538& 'B 54 B' 23' 8& <<B:.=2B' 428' 8<2.3 329B8
&283' +583B9 ; 253' ?9 '<B:49 3' + ' 53 8 ; J:B 2
4 ' ' a4E :V@< 0' 534 ; 20' 23' :A:583E0' (: B
3 ! +$ ' Q 5*3 *8 ; *3 *\&/0' ";' $9'
' 4253' 4 ' + ' E 8 :50' 49' 534 ; 2' :98' + ' +929B' 5*
3 8 ; 3 ?92' 4&95' . 2+' .<2<9825+ B2' ' 4+2E 3' 952'
b Q5:B ; 2' ; 882' 5: B2' .+ BJ+2' 4& J9 ++28' 23' 42' .+:*
8 23:58' E ' / ' 4 58' +2' ' " ' 9
B' ' ' ' 4X 9< 0' 534 ; 2' QE:R' . G
0' 0' S $ ' Q 5*3 *8\&/0' ";' LLZb' 9@23' \' 428
53 8 2 ' H. e :5I' :9882' +28' 958' B <<2' +28' 9*
3B280' 3' ' < 882' ?92' ?9 ' +9' <+ 30' 2' 53 8?92' 5 K
; +' ?9& "2830' ' #/ ' E ' E20' 43:9B4 20 . *
<#. 2982' :+32' < B4 ' 34320' 8 J2' < B' +2' .:29B0' G:552'
< B' 32 ; <2B ; 2530' ; 4.= 532' < B' . <B .2' E: 3' 25'
?9 3B ' ; :38' +2' <:B3B 3' 42' + 'B2 52P' 53 8?92' 43 3
'8:5' 5: ; ' 5: ;' .4+4GB2' ?9&2+2' E 3' B2?9' 42' 828' 5*
.43B28' 25 + J52' 2 ; 5 52' 23' 4:53' 2 +2' 8:9325 3' 4 *
J52 9253' &=:5529B0' ' ' < ' ' -
0' 025 530' ' 8 *' + ' .: ; ; 95 . 3 :5' 428' <258428' 40' *
, '3B9 0' 52' 82B 3' ?92' 839<\+2' 59' 53 8?920' 82+:5' +2'
42JB4' 4& 5 .B :5' :94& .3 E 34' 42' 8:5' 8258' 534B 29B'
; 32B 2+0' ' ' 7# ' " ' - 'LL ' 283' 53 8?92'
.: ; ; '952' ; 9+20' 82' 4 3' 4&952' <2B8:5 2' 3B48* 5*
,6+ 8?92' ' 2B ; 242 ; 54J2 =2E + 53 8?920' .G2E +'
0?9 ' '428'. <B .280' '] M BB20' ; 33B :B4 5 B2258:9'
J25B2' # G 3' 53 8?92' 2' J 8.:5' <<B:9E 53' :B3'
28' B 8:580' +8<B B253?923?92' 53 8?92' 89@23' 4 82'
?92B2+2B' 4 58' +28' 9 +2B 28' # - ! - ' + E' E50' <'
FN' 9B' +28 5+ 8?928' B8' 4&95' B4E29B' 42' ; 98 ?520'
' < ' J' 6#A ' $9: +' ; 28' <4B280' :5' 52'
<:9BB '82' ; :?92B' 428' < 88 J28' 4& 8.:G B' 23' 428' 44*
. 8 ; 8' 8' 53 8?928' 23' 8 ' <29'. =B43 25528' 42' E:8' 56'
3B28' 9329B80' 8 58' ?9&:5' 8: 3' ..984' 42' 3 B2' 42' + '
B2+ J :5+ .' #! 5 ' B ' LL J' @ ' ' 23' ' 5K
3 8?92' 54J +20' $9 0' ; & ; 53+2' ; 3 50' 8:9E253 ; 2'
G 3' +2' 8: B0' 6 ' @ 'A' 'R' ' 428' 59 5.28' 253B2'
E: B' 428' G53.48 28' 23' 43B2' 53 8?92' ' +2' 53 8?92'
<<B:.=2' >@2 9.: <' <+98' 49'G M BB20' ' ' & '
' LL B:E2BG2 * ' R' ' 42' ?9: ' .:532532" +28'
& 0' 53' 9280' 82' 4 3' 9 54' 25' 4:552' \' .=: 8 B' 253B2'
<+98 29B8' .=:84 ' 4 2B25328
' - ' # ' S 6 8' 9' ; :583B28G 250' :' .929B' 829+230
0' 0' ' 92' 39' 28' 3:93' _53 8?920' 7 ' 4 58' +2' ' " '
' N' .:.# M' S 6(' ; &25 532' 3 53' #"' .G ; 2B28' 23'
L' ; :583B28' 53 8?928' ?92 ' ' ' +98 29B8'
; 28<B 8253' .2' ; 285 ' 20' .: ; ; 2' 53 8?92' H 5.2BK
3 510' <25 G+20' 428<258 2B0' : ' ' . : 'c3'
3259B' <:9B' 53 8?928' 23' <= +:8:<=280' 7 -?G @!#'
/ ' 0' "N
f ' ' 2' + 3 5' - (7 ' E2.' & ..253' 89B' '
9B 3' 4:5540' 4 58' & 5. 2552' + 5J920' & 3'
2&283' <B:G G+2 ; 253' .2' ; :3' ?9 ' 283' b 5 * * / *
$ ' Q 5*3 *8\2* ; 5/0:49' &952'
; 5 G 2' 53 8?92' '8&= G +2' \53 8? 2 ; 253
' ' 53 8?920' 23' +2' 8933A2' -
'Q 5*3 *8 5/0' 8' X ' :+4 3' 4& 5 532*
B 2' B 5?: 8' M BB:' 33 ?9 ' .23' 2 ; < B2' Q+2' 4B:9I'
E2.' 429A' .253' . 5?9 532' 53 88 580' 8: A 532' . E K
+ 2B80' 23' 952' 4:9M 52' 42' <23 38' . 5:58' ?92' 3B +5 253'
8:9E253' +28' 28.+ E28' 428' < R8' 4 ' @\' 4: ; <3480' '
' ! # ' V"F' 5' 4:552' . 5?' 8:98' 59 ; 4B B2' 9' *
3 88 50' .: ; ; 2' :5' +28' 4:55 349' 32 ; <8' 42' #25B' 0'
' X!7 ' '
- ' 'S 6 (' 28' <B 5.28' E: 253' 25.:B' GA '
53 . 58' 23' R ' .=2E 9A0' ' ' 0' C ' *
3 ++:5' 42' 53 2G 580' ' 1X
' 3 +' - - ! ' 4 ; 593 '42[8532@ 25*
3 88 50' <B2?92 ; 253' <23 3' J Bh:50' 42' - - ' < B'
<G4B4 2' QE:R' ' 23' G
$ ' Q 5*3 *83 *\&/0' ";' LL 6' $9'
5&2A 832' ?9&25' 53 8 20' 25' ; J 5 3 :5' & ; J 5 *
3 :5' JB:88 3' +28' <23 38' :G@238' @98?9&\' 25' B2 ; <+ B' 5:3B2'
\ ; 2' < B' 952' 283 ; 3 :5' 53 83 ?92' 23' < B' 952' 5K
8:+25.2' 34 ; 4B ; B8' 2 +2' ; : 54B 3' +28' JB 548' @98?9&\'
8 ' ; 289B20' .: ; ; 2' 25' < B+ 53' 4 ' 290' 7 ' 0 -)

4 ' 43E 2"0' 24 3' # ' 28' =2 ; 83:.+20' +28 ! +*
3 420' +28' B 83 420' +28' =:. :5' 8:53' <2B82.93280' 3 5*
4 8' ?9 0' 2B8420' ..=98' 23' 4& 93B28' <2B8:55 J28'
53 83 ?92 ' :53' 428' 32 ; <+280' ' C(7# ' - #! " '
\@ .2332' 59 30' I :< .2' \' 828' 4 29A' 53 83 ?928' B2'
95' B E:+2' 25.258' 23' 428' E229A" .= ; 2B ?9280' 5')'
- ' # 0' N*' 28' 42' 9889B20' +28' 2+9 .0' +28' e 2B52B0'
8:53' < B3 8' 42' \' H428' :G82BE 3 :58' 42' ++ 8I' <:9B'
BB E2B' \' + ' E4B 3 ' +2' ..:55 88 5.2' 42' + ' 83B9.39B2'
42' + ' 32BB20' 8 ' 4 2B2532' 428' 4428' 53 83 ?928' 428'
2.B E 58<B42442538 ' + :<242 ++ 8' LL $9'
5& ' ?92' & << B2522' 4&95' 43B2' .:B<:B2+' 8 :5'
53 83 ?92' ' H 542>8 8 3' 8:5' 2B' < B' + ' J B42'
! :58 29B' c52 80' <B252M J B420' 3' + ' 8 GR+2P' .28'
E + 58' :53' .:B<8 53 83 ?928' 23' E 58' $9' 42K
.:9<28' 52' <29E253' 43B20' ' R #/ ' E ' &\ ; 2'
8 58' 29' 283' 952' \ ; 2' 8 58' E 20' 8 58' ; :9E2 ; 2530'
8 58' +9 ; 4B2 ' 8 'E 2' 5&283' <+98' ?9&952' E 2' ; J *
5 B2' 23' 53 83 ?92P' 230' 82 ; G+ G+2' \' .28' . 4 EB28'
?9&95' 28<B 3' 23B 5J2B' 5 ; 20' 2 +2' < B 3' E EB223' J B0'
; 8' 2 +2' 42 ; 29B2' 4 58' + ' ; :B30' ' 1 #' + '
53 83 ?928' G2 93480' .2' +9J9GB2' 8:9B B2' !& 55:5*
.2*3* +' E:3B2' .:9BB:9A3' E ' ? 7 ' 4280' 0' ' LL :5328'
53 83 ?9280' 82' 4 3' 25' J454B +' 428' .:5328' 42' 4280'
428' .:5328' 42' B2E25 5380' 230' 25' < B3 .9+ 2B0' 4&95'
J25B2' 42' .:5328' ; 8' 25' E:J92' < B' & ++2 ; 54' #: K
; 550' : +' +2' 89 ; 39B2+' @:92' 95' JB 54' B +2' LL *
; + 4B2 ; 2530' :5' 4 3' 2&283' 53 83 ?920' \' <29' <B48'
.: ; ; 2' ' 2&283' G9+29A' LL 6' $9' 82' + 882' ++2B' \' 8 '
53 8 20' 28' B4E2B 28' 2 + ' 25' .2' 8258' ' H :5*
8 B4I' E 3' +2' .2BE2 9' 53 83 ?92' 23' B23 0' #' '@ '
S' "6' @ ' 2?9 ' 5&2A 832' ?92' 4 58 ; J 5 3 :5'
& ++98 :5' 5:98' B <<2' 93 53' ?92' &2A 8325.2' 30' < B'
+2' 8253 ; 253' 89 8 ; 253= 9B29A0' 2' & ; :9B' 829*
+2 ; 253' 5:98' 8: ; ; 28' ; :9B29AP' 58' ' +2' 53 83 ?92'
'4B: 3' 89B' 5:3B2' =: ; ; J20' 3' 5:8' 29A' <:9B' :G@23' 52'
E29+253' ?9&952' ; J20' < 0' 43B: ; 5320' 5' F0L/ 2'
53 83 ' 20' +2' J25B2' 428' .:5328' 53 83 ?928
- ' # 0' ABE6' 8 ' =:828' 53 83 ?9280' 'S=482'
" ' ' 83 2552' ! B.:90' =: ; 2' +95 3 .0' :90'
< B' 9.958' 532BE +28' :9' 42.:9B80' 58' ?92' 5K
3 83 .' :9' 58258 G+20' ' B ' - (7 ' >2' < B+2'
\'3:R0' 8:3' 53 83 ?920' $9 '32' 4 a' 23' 5: ; ; 2' 25' <B 3 K
?92' +. ; 832' 23' G:5' <= +48:<=20' ' " ' # " & '
##' VV' #\E 6' 8' 5E2B8' .28' X 3 83 ?928' HB4E29B8I0'
98?92+8' B 25' 52' <+ 83' ?92' 5:9E2+2340' +28' 328 ; : J5 *
J28' 42' & 8 B 39B2' 52' <B: 32' 3' <: 53' G2 9.:9<0' 9'
- ' C0' ! 9+' 52' 4:932B ' ?92' +2' .:B<8' 42' >2898'
=B 83' 52' 8: 3' 53 83 ?92' :9' 53:8 ; 20' 8& +' '2834' 42'
.2832' .:54 3 :50' 5' B ' >2' B28 J52' .23' <<23' 3' 5K
3 83 ?92' HG M BB2I' \' +G 0' ?9 ' 52' 8& 44:55: 3' ?9& 9A'
.= B8' 49B28' 23' E 2 +280' ' 5 0' F" ' ; 9+2' ?92'
39' ; & 8' G ++42' 5&283' < 8' G:552P' 2 +2' 283' < B' 3B:<
53 83 ?92' H 53 8?9210' " ' 1 ! - ' : : . / '
' ' B:E25?' - (3' 28<' 23 3 +' -)'
! ' 49' + 3 5' - (7 ' 49' JB2:' .< EE ; A: .' QE:R'
@B
b8 ! $! ' Q G5*3 *83 *\2* ; 5/0' "5'
&952' ; 5 \B2' 53 83 ?92
- ' # 0' AE+6' 8' $92+?928' B:R8' +28?92+8' 53 83 ?92*
; 253' J9 B 88253' 4& 9.9528' ; + 4 280' ' 0 - '5'
' ' - =7 ' 23' +2' 89 A2' ; 25
3' $ ' Q3:*3 *83 *\4/0' 5 ' - ' ; J *
52B' 82+:5' 8 ' 53 8 2
- ' # 0' AE36' F' ' <= +:8:<=2B' 2&283' 4:9G32B0' \' <+98'
:B32' B 8:5' 5 82B' 23' 53 83 ?92B0' .: ; ; 2' @2' :R8'
H 810' 4: G3283B2' 4:9G32B0' 6 6 ' ' Y
' ' - =7
3' ' Q 5*3 *5&/0' ' ' B3 2' 49' .=2E\+23' \'
44E 42B' + ' 8: 2' 42' 428898' +28' .:2:58
Q 5*32*3.= *5 /0' ' ; <= ' B :5*
523328' 9A?92++28' :5' 3' 2A4.932B' 428' 82\528' 89B' 95'
3=2\3B2' +2B' E: B' +28' 53:.. 5 0
- ' (! ' 3 + ' - ! ((- ! ' ; B :5523320' 9' <+9B'
- ! ((- ' 4 ; 593 ' 42' - ' @2952' J B?:50' 82B*
E 329B0' <=4B\82' " ' - - ' QE:R' @
3' # ' Q 5*3:*.=@0' ' ' 4:+:J 8 ; 2' #' 82'
4 30' 9' + 29' 42' 53:.. 5 0' - ! ' 829+2 ; 253' 428' ; :B28'
B :55233280' ; 8' 428' <2B8:55 J28' 42' 3=2\3B2' ?9 '8:53'
53 83 ?928' 23' 5&:53' < 8' 42' B4 + 34' LL? " ; ' M BB2
- ' (! ' %0&' - ! ((! 'D *8' @
! ' Q 5*3N* ; &/0' 8' ' LL " Q ; J2' 428' ; :B38
?9 ' << B 389 ; 39B2+2 ; 2530' 9' +2' 534 ; 2' G29'
4&952' ; \B2' 8 5J+ 5320' 9' & 8<2.3' ; <:B395' 4&952' ; \B2'
E E 5320' 7 ' ' " ' ' #' 0' V' >& ' 4&95' 53'
E9' +2' 534 ; 2' ; ; 2582' 9B' 5:8' G E:9 .8' A2B' 95'
:3 +' B4253' 7 ' 1&' "7 ! =7 ' LL B' 2A3258 :50'
.2' ?9 ' ' & << B25.2' 4&95' 534 ; 2' &: ; GB2' .B: 8*
8 =0' 23' 44@\' 4 58' +2' .B4<98.9+2' ; 28' B2J B48' 52' 4 8*
3 5J9 253' <+98' ?92' +28' 534 ; 28' G+ 5.=\3B28' 428' .:*
+:5528' 23' 428' ; 9 80' ' C - ' L' ' 82' 4 3'
<:43 ?92 ; 25' 42' <2B8:55 J28' . ' ' ?5 ' :..9<2 ;

& ; J 5 3 :5' #' B2E:+3' <B\ '42' +9 0' 3:93' \' .:9<' 5 *
; 480' 28' 534 ; 28' 8' G2 9A0' \' 5:8<+29B8' 3 53' ; 480'
:53 + '3B:9<2' ; ; :B32+2' = G 32' 8 ' ; 2 ; : B2' >9+ 20'
; 532 G+2' 23' 3: ; G42 E2.J+: B2P + B 8820' G2 934'
8 532' :\'B28< B2' +2' . 2+ ' ' # ' A / ' A E' ' @2'
<:9E 8' 4&95' ; :3' 4E:?92B' 42E 53' 3: ' 28' 534 ; 28'
4 E 58' 4:53' 3 ' <+9 ; 2' 2. : 542 ' ' ' < " '
,7' ,7' ' F ' #* ' LL ' '82' 4 3' 988 '49' 8 *
; 9+ .B2' 89 ; 39B2+' 4&952' <2B8:552' 5' 534 ; 2' < K
B24' 23' 42' 3 +2' 23' 42' .20' 54 8' ?92' E:98' 9 B2M0'
B2 ; <+ B 'E:3B2' <+ .20' 'A ' E0' M ' &95' 5*
34 ; 2:4 29A0' 8:+4 380' 42+ EB2M* ; : 0' ' & ' &
M ' " ' B' 2A3258 :50' <2B8:552' 3B28* ; JB2' 2'5&283'
<+98' ?9&95' 534 ; 2' LN' 2B8:552' ?9 ' 5& ' ?92' & <K
< B25.2' 42' .2' ?9&2+2' 42EB 3' 43B2' B2' 95 : 4&95'
25 53' <:9B' 43B2' 8:5' 39329B0' Q 283 ' ; 233B2' 89B' +2'
3B452' 95' 534 ; 2' <:9BB: 0' ' O ' ' '
3:93' ; 29B3' E2.' 5:980' +28' +: 8' 8:53' 952' 82BE 3942'
5825842P' +28' B: 8' 23' +28' 8:9E2B 580' 428' 534 ; 28'
?3 2' + ' G+2882' 428' <29<+28' '4+2E480' '
&/ ' 5' 5:5.2' 93' 25E:R4' \' .2' .:5JB48' <:9B' 43B2'
95' 534 ; 2' 4& BG 3B2' 253B2' 428' 534 ; 28' 42' <+45 *
<:3253 B280' 9 ' = , '$$3 ' W' ' : 8' &=: ; ; 2' 25'
! =: ; 230' .:5?: 8' < B' ?92+' 42JB4' 9' 8' ; ; :32B'
9' . 2+' 3:5' 534 ; 2' 4:B40' ' - ' ' ' 2< 42'
283' 95' 534 ; 2' 82 ; 253' 4. B340' " ' 9 , / ' - ' Y' 0'
9G+ 2M 95' 4<:9A ' 534 ; 2' 42' +9 * ; 4 ; 20' 54 *
J5242E :98' E: B0' ' 3$' 0' ' LL B
2A3258 :5' 5' ; <:8329B0' 95' 534 ; 2' 42' <25 32530'
' ' < * , ' &283**4 B20' E:58' 4 28' 953'
534 ; 2' 42' .=B23 250' 5U' ' 3 ' * ,
' a ' +52' << B25.2' ?92<B48253253' +28' .=:828' 8*
3 ; 2B+2' 534 ; 2' 93 53' ?92' + ' <2B8:5520' ' 9
' M' 2' 534 ; 2' 4&=:5529B' ?92' E:98' <B232542M0'
3:93' E 5' ?9& +' 8: 30' 43B2' 952' 2A.982' 4J 3 ; 2' <:9B'
+28' ; 29B3B280' ' O / ' A E ' 58' 8&2 B R2B' 42' .2'
?9&:54+B 30' 8 58' .B 54B20' .: ; ; 2' 93B2 : 80' .2'
E 5' 534 ; 2' 428\' ; 28' 5 B ; :8' 4:53' +28' JB 548' 8:53'
2<:9E 5328' <+98' ?92' 3:58 +28 93B280' + <B 5.28 2' < K
+ 3 52' < B93' \' + ' ; :9B' 8' 4 +04B2532' 4&2+2* ; 4 ; 20'
' & ' ' 28' =4B23 ?928' 8 253'
95' 534 ; 2' 42' &+5. ; 3 :50' :B' A ' ; *
G 25' 42' 534 ; 28' 42' .:5E2B8 :5' > " ' B4*
' ' <# , * ' Y VA ' 9' =29' 49' 534 ; 2' 42' + '
<25 325.20' I2' +28' 9B +8' B +9 38' \' 25' E: B' + ' <B 3 K
?92' 8:+ 420' 5U' ! ' E ' < * , ' + ' .:9B253'
<B48' 95' 534 ; 24&952' 882' J+: B20' # ' 9 ' A E '
>2' .B:R 8' ?92' + ' <B:G 34' 23 3' 95' G2' 9' 534 ; 20' '
3G' A ' & ; :9B*<B:<B2' 52' .2882' 42' 5:98' B <<2+2B'
5:8' ; .29B8' BB4<B2G258 G+280' 42' 5:98' <B482:32B' 95'
534 ; 2' 42' E2B39' 2342' B4J9+ B 34' ?9 ' 5:98' 254:B3' 23'
5:98' B 889B20' ' < ' ' * , ' ! 2*
<B 82M +2' ; :542' 23' + ' E 2P 3:93' .2+ ' 5&283' ?9&95'
534 ; 2' 4&95' ; : ; 2530' 9 ' = ' A ' , ' ! 6 '
5<E' CNF' C' = ; 4B28' :58' .28' 534 ; 28' ?9 ' & *
G98 253' 8&2E 5:9 B:530' ' < * ' +2' *
5&283' <+98' 3B:9G+42' < B' +28' 534 ; 28' 42 '8258' 0'
' 0 ' 2B' ; :B32 0' G 55 8' .28' @\534 ; 28'
9B' 3: * ; 4 ; 2' @2332' :5' .:9<' 4&:2 +' $92' 8: ; ; 28*
5:980' G+28' 3: ; 280' :9B' <:B32B' B ' +: 5' :3 ; ' :B* I'
J92 +' ! + 0' 420' ^2 # 1 ' 4:28'
5: B28' :98' ?9 ' E2M 3 53' 42' B 8:5' 23' 4M' .:9B J20'
93* +' ?92' E:98' 8:R2M+ '49<2' 42' .28' E 58' 534 ; 28"
8 E' YYY ' ' J ' ; :G 33B2' 428' 534 ; 280' 82' ; 4<B25*
4B2' 23' 4 8.932B .2' V@9' 5& < 8' 434' 4 3' ; ; ; 253' 283*.2'
?92' >4858* GB 83' 82' 4432 ; 952' \' <B 28' <:9B' +28' 958'
<+9343' ?92' <:9B' +28' 93B280' 2&283' 89B' ?9: '@2' 52' E29A'
< 84 B2' ? 2+' 283 +2' 8253 ; 25342' & 9329B' H! /2GB 5*
=210' 42' <29B' ?9& +' 52' 82' <+ J52' ?92' @&39' :B ; 4' 428'
534 ; 28' <:9B' +28' .: ; G 33B2' # ' 3 ' ; 0' <' C * L ; *
+ 2B2 ; 253' 2' : B2' 428' \534 ; 28' 42' B 250' 8&' ; J:B2B'
952' 4 .9+340' 95' <4B + 'LLF6' 2B ; 2' 42' = B9BJ 2'
! 552?9 5' <B:<B2' \' &4394242' .2B3 528' .:<2B 3 :58'
28' .: ; ; 8 B28' 532BB:J\B253' :5M2' @29528' < R8 5*6'
528' 3 53' 89B' + ' 3=2:B 2' ?92' 89B' + ' <B 3 ?92' 428' .*
.:9.=2 ; 2538' +8' +28' B253 ; 5:29EB2B' 89B' +2' 5 -'
34 ; 20') ' < ' * ' :54B280' CFN0'
3' AAA#0' @ ' C') ' 2B ; 2' 42' 8.:+ 83 ?92' ; J28'
<B:49 32' 4 58' +2' .2BE2 5' < B' & ; <B288 :5' 428' :GK
@238' 2A34B 29B8' LL ' 2B ; 2' 42' <=R8 ?92' 534 ; 2'
; J523 ?920' J9B2' ?9&:5' :G3 253' \' & 42' 4&95' .:9*
B 53' ; J543 ?92' +:B8?9& 5' + 882' 3: ; G2B' 42' + ' =*
; +2' 42' :B' 89B' 952' 29 +2' 42' < < 2B' 325492P' ; *0'
<B4J542' 4&2 ; <: 8' 4& ; 4:5' <B2< B4' \' + ' J4+ 3 52
' 2B< 2' 42' M: :+:J 2' ' : ; '42' ?92+?928' 582.3:8'
49' J25B2' 428' ; 5328
- # 0' A56' 8 ' 53' +29B' ' 4 3' 53:8 ; 28' ? X' 42*
.G2:8' H44.98I' +28' 0' < , ' ; 8' < ' CN0' 4 5 '
'A ; 6' 8' ' :53' H+28' E2BB28I' 53:8 ; 28' < B258' S
.29A' ?9 'B2J B4253< B2580' '< 'G ' 53:8 ; 2'
5:98' E '3 9E: 53 :9BE:R 5310' LLABE6$ B'
2532542M0' B:R520' 233:93' .= / :9+' 8:53' .= ' HR \!2' #6'
3252M \' ; 3 8 ; 2' 3:93' .G2

[illegible]

[illegible]

[illegible]

[illegible]

Q A Q A

=9 ; 528 83*W2 4:52 _ ; :9B B^ 7 B C * C " '
'@ ' ' :23 ?92 ; . 3' 2 42 9 428 58' [ ]' 2
?9 ' 2A J2 G2 9. :9< 42 8: 5 3 25J J2 + 'B28< :58 G *
34' 2 + B42 943 33B: <<28 53 <:9B 952 829+2 3G32
59 ' U ' 1' EB' ' 4 58 ' 2 B42 9
H &2 ; < B2I ?92 8 ' ; 5 283 + 882 42 <:B32B
- - ' 9 3 ' ! 8 @2 8 8 <25 +: 92B 23 ; ' ; 982
3B2 ; G+ 532 9 3 4&95 8 ' JB 54 B42 9 + ' . = BJ2 3B:<
<28 532 ' B2 9 B:3 ' ! 8 = <2 52 +2 . 2 293
B <<2+2 ; :5 <GB2 ' >2 8253 8 +2 B42 9 ?9 ' ; 23 3
; <:83n S"' 2* / / ! (, ! "' &"' 2 ; *-: ' #" ('#-" ! : ' 2* / @
3B B2 _ ; 28 ; :9B8 EB 3 = &95 E2B8 +2 B2832 42
; 28 @:9B8 ' D # - ' 5 A' ! :5 . :29B <293* < :BK
32B 829 23 <B E4 4& <<9 2 B42 9 428 42E: B8
?9&:5 ; & ; <:82 9@:9B4&=9 ^ ' X # ' 5 "'
' N' ' 82 4 3 42 .2 ?92 . :43253 +28 J92BB28 25
= : ; ; 28 23 25 BJ253' 8 8:93 5B253 +2 = B42 9 42
3 53 42 J92BB28 ' K ' ' 3: ' 2 ?9& R 293 42
<+98 23B 5J2 .&283 ?9&'3 53 253B4 4 58 B2842 +2
' R 3 + ' < A +2 % E2.' & 93B . = 2 23 + ' A2 23
+ 88 ' 3:93 +2 B42 9 9 B: ' 42 5.2 9 '
+ ! 7 ' R ' C' ' C ' 2B ; 2 42 ; 528 ' 2BB28 B: . =28
?9 ' ; 25 . 253 4&4G:9+2B ' L F ' 2B ; 2 42 GB 882B 2'
&2 9 23 ' B 52 ?92 G :53 253 952 . 9E2 = B2 42
+ ' G GB2
' ' : + I ' (' * ' (' ("' 8:53 549 ' H3:98 429AI
28E2 + 4 ' :53 ; : 9+3 G 25 < B2 + G ; ; ; 2 ; B*
. = 2 5M +:B B42 3 B ; 93 ' <B 8 95 = B42+ 38 '
& ' = 8:5 . : <2549 25 ' N7 ' ?9 ' ; 23253 B*
4 98 25 & 92 25 B2E2 <:9B +2B = :BG92 6 ' +
:RB2 ' 8 ' 52 4: E253 5 : 253 + 5 ' " ' F%
' O B ' :53 3 = B 83: <=2 23 8:5 B42 US ' = B 83
?9& < :B3 I ' ' O! ' ' ' 7
4 58 ' 4:5 .' 9R B254 3 828 +233B28 3:9328
32+28 ?92 2+28 283: 253 + 228 25 95 B42 9 D ! 7)
(= ' 5 % ' ' S B' B42 9 42 B:G28 :9 3B:882 9
H3B:9882 9 428 5:9E2+28 ; B 228I ' ! 75 ' ! 7 '
/ - # ' 3 ' 5 < ' C
- ' 4 ' :9BJ9 J ' " 3 <B:E25^ #" 3 . 3
28< J5 ' #" ! ' #" ! 3 3 + ' #" ! ' B *
J 52 5.2B3 52 9 435J2 +2 3 B2 42 :< :P BK
42 9 A ; 8 +2 . = 5J2 ; 253 42 E:R2+28 Q:' 25 9
4 58 3:9328 +28 + 5J928 B: ; 528 3 4 .9+3 ' '
45 5 <2$82 ?92 #" ' 283 4 3 <:9B & #" ' 42
& # ' + 25 ; 8 . ' 988 +2 . = 5J2 ; 253 42 & 25 '
4 58 3:9328 +28 + 5J928 2 3 95 :G83 . +2 ?9&:5 52
<293+ 882B 42 . 434' 2 8 ; <+2 8"#" ! 82 3B:9E2 4 58
+2 <:B39J 8 23 +28 G3R ; :+: J 8328 <:B39J 8 +2 3 B253
42 & B G2 #" ' ?9 ' 8 J5 2 E432 ; 253 4B < 58
+2 3 + R ' 988' 4 58 +2 <:B39J 8 #" ' = G 3
4 58 &28< J5: 23 +2 <:B+9 ' 8 #" ' 23 4 58 @2
E 29A B 5? 8 #" ' = G +2 ; 253 Q 2 <:9B28 B*
428 82 E283 D ! 7 ' ; 8 ' < ' F 4 58 G ' 2M
4 ; 23 . : ; ; 2 + ' EB 2 :B J 52 ?92 49 8258 42 E4*
32 ; 253 :5 3 < 88G \' ?2+9 ' 42 G J J2 23 42 :2+9 ' 42
G J J2 \' .2+9 ' 42 B4 ; . &283 58 ' :92 5E2B82*
; 253 #! ' ?9 ' 8 J5 3 G93 5 ' <\882 9 8258 "2
EG32 ; 253 ' 2<254 53 3:932 5.2B3 3942 5&283 < 8
4. B342 E9 ?9&:5 52 3B:9E2 < 8 +2 < 88 J2 49 8258
4&= G +2 ; 253 \' B42 9
3' 'Q B*42* ; 5/ W ' ; ' .3 :5 42
B42B
- ' # ' O 8 ' B42 ; 25342E 2 + 28 . = :828 <:9B
+28 ; 29A E254B2 ' # '
V' (! ' #" # +
' Q B*44/ B ' ' L 6 ! 233B2 49 _B4 ' 5
+9 ' B44 +2 E 8 J2 ' L 2 B42B B42B \' 8: ' 2
; 42B +2 E 8 J2 ' L :552B \' :52 . = :82 49 +983B2
+ 52 << B25.2 ?9 ' 25 . . = 2 +2844 938 ' B42B 952
43: 2' B42B 8 ' ; 2B. = 54 82 ' 3 ; : 8 58 . : ; <+ K
; 253 ?9 ' E:98 B42 ; :5 . :29B >2 E:98 : B2 23 42*
; 542 952 ; 3 4 428:29B ' , 75 ' E F ' S
+ ' JR ; 5 83 ?92 :5 ' 3 89 .242B B3 42 B42B +28
. :B<8 23 42 +29B 4:552B 952 G2 934 .3 .2 N '
3' ' < ' 28 . :9+29B8 +28 <+98 E E28 <:9B B42B 428
E .28 23 428 .B ; 28 H. = 2M +28 4 29A 49 < J 5 8 ; 2I
?9 ' 82B 253 3: ; = 48 4 58 +2 442B ' 8 58 + ' < B9B2
?9& +8 H+28 <:4328I +29B <B43 253 <:9B 25 . :9EB B + '
4 :B ; 34 & G89B4 34 23 & 5 ; 2 ' , # '
" ' C ' 5 + ' :5 42 3:98 +28 ; 538 +28 B2J B48
+28 8:9< B8 28:53<: 53 428 < 4J28 <2B +428 : 9*
@:9B8+ 2 532 ; 258:5J4B2 2 B42 <: 53 42 <+29B8 '
58 25 538 428 428 B8 52 58 4 2982 <B 4B2 '
' 42 ' ' J ' B42B 8 ' ; B. = 54 82 B: ; *
<2B B2 ++98 .5 ' :98 52 B42M <: 53 E:3B2 ; BK
. = 54 82 ' 4 28 = :55432 = : ; ; 2
& ' " ' [QF 4J9 82B .2 ?9 ' <293 44<+ B2 23
. = 2?92B ' >2 E:98 283 ; 2 3B:< <:9B E:9+: B B+25 BK
42B ' ' (! ' ' >2 B4<:54B ; 4 ; 2 E2.'
+ ' + G2B34 &95 8:+4 3 ?9 ' 8 +3 ; B42B + ' E2B 34
' D# ' ' 4] 5 32B ; 28 42 + 334B 39B2 < B2B
4&:B52 ; 2538 42 ; 9E 8 J: 3' B42B :5 ' 4 8. :9B8
B42B 8:5 + 5J J2 ' L ' 8&283 4 3 988 ' 25 < B+ 53 42

+ ' <2 539B2 ' H ; :9B8I :98 E2M ; 2 + ' <2 539B2
:98 + 4 882MH&:<4B 2 ' 0 Q- ' ! 7# ' L D+
82 4 3?92+?92 : 88 ; <+2 ; 253 <:9B 44J9 82B E2.' 95
5 : ; ' 42 . = :82 <:9B 89@23 ' 3 B2982 ; J2 49 3B4< 8
$9&95 3B 832 G:5529B * ; & E 3 B442 9B<B25 5328
= :BB29B8 4<:9E 53 G+2 442 9 ' 3 5343 52 ; &2*
GB 5+ 2M < 8 ' - "#! ' L N 2 B42B W
' &2G49 B2 42 B4 ' 2332 2 ; ; 2 82 B42 ' L J '
5 ' G2 9 82 B42B 9A R29A 42 &95 E2B8 '
@ ' O ' ' 3B2 B42 ' :93 82 B42 \' + ' . :9B @98*
?9 \' + ' E2B 34 ' D ! ' 4 ' ' ! 7# ' '
- ' # A9 6 8 ' :9328 :53 \' 2598 = : ; ; J2
58 B2J B42B <B29 52 4 : ; ; J2 3 82 . : 53: 253
H82 < B253I 2+82 B4253 :9B .298G:5 2B H3B: ; <2BI
?9 ' 28 B2J B4253 ' . ! ' 7 N" ' LA E 8 ' B2 828
<2. = 48 8 58 B 25 <:+ B 52 B42B A - / # ' Y '
' O I 8 ' 5 B2J B4 53 .28 G2+28 +29B8 $92 +2 32 ; <8
5:9E2 9 4& ; :9B8 <B 2 = 8.952 4&2+28 8& @:+ 2 3
B42 42 <+ 8 58 . :9+29B8 6 ' 5& ' . ! - " 7 '
' o 8 ' +:?9253 \' 5E2532B 428 B 8:58 B4428 42
< B:+28 = :528328 $ ' ! - ' A ' &283: 253 G2+28
< B:+28 23 G 25 B4428 <:9B . :9EB B + ' ; 9E 82 5K
3253 :5 ?9 * E: 3 25 8:5 .929B 5 ' , ! ' 4 '
& ; ' 42 + 3329B23 < <2+ B3 ' :98 J B42 29 '
' B:E ' 3 ' ' < ' BY ' ' 8 J2882 = 9*
; 52 ' .3 E:B G+2 ; 253 23 54983B 2982 ; 253
4&2 ; <+:R2B 828 B3 .28 \' 5:98 <2 J52B 23 B42B +28
; 9+A 23 25 +2J2B &"' 8253 ; 253 ' ' JJQ '
:83B2 2A3B2 ; 2 E:+9<34 ' ?92+?92 B 42 J2 ; 882*
; 253 2342<+ 5.32 ' E: B2 ?9 54 5:98 25 :BJ2:58
& ; J2 25 8:5 2A.2+25.2 5:98 + ' B4:58 4&2< 3=2*
328 23 ?9 + 32M ; + 4 E28 234<9+:9B298280+ 5J929B
; :+28823 : G+2882 42 ++ 5.2 5 ' + F
- ' (! ' #" ' 5 3B:9E2 9 A56 8 4.+2 95 44*
B E4 #" ! A ' G BG:9 +2B ' B4: + 4 9B253 4& +95
23 4& 5B2 ; 253 H25.B2+ A ' 0 # ' ' > # - / 5 ' %
$' ' Q B*44/ 5 ' 5 ' & 882B 8:98 8:5
<B <B2 <: 48 25 < B+ 53 42 ; 9B8 23 42 . :583B9.K
3 :58' 2 ; 9B B42 ' L 2B ; 2 42 ; B 52 ' 2 4 34&952
E: +2 ?9 ' <B254 8:98 +2 253 952 :B ; 2 BB:54 2 23
B2J9+ 4B2 ' 2332 E: +2 B42 G 25 ' L 2B ; 2 42 5 E K
J 3 :5 +9E +2 ' 5 4 3 ?9&95 G 32 9 B42 89B 95
93B2 ?9 54 +2 82BB2 42 3B:< <B48
' 6 " ' S 8 ' B 5.2 ?9 ' E293 E EB2 25 32 ; <8 23
8 8:5 ' :9B 8:5 = :832 882 8 ' J B5 8:5 2 J258
4&G:5529B 23 <B:4 : ; ; 28 82 B42 H82 = BJ2I '
9<8 " - ' " ' &! ' "7 ' # - (
: ! 4 ; 2 B 4 . ?92 4 58 #" 7 ' S
:925 +2 <29<+2 4 3 #" # <:9B <:B32B 428 B*
42 9A ' 28 44. = BJ29B ' 428 5 E B28 <:B3253 3BG8*
+ :9B4 < B.2 ?9& +8 8<53 . . :939 ; 48 \' B42B
' Q B*4293/ ' ' 2+9 ' ? ' 44J9 82
?9 ' B42 ?92+?92 ; B. = X4 82
?* " ' + ' ' B42 +B 42 . = 2E 9A H.2+9 ' ?9 ' +28
; ?9 J5:552I
- ' N ! ' :B42B
' Q B*4 4/ ' ' = B :3 \' B 928 G 8828
<:9B 3B 58<:B32B428 G+ . 8 42 < 2BB2 428 83 3928 23.
** $ ' R '
' Q * / ' ' ; : ; ' 4&952 <\2= 2 8:+2552+2
?92 +28 <\. = 29B8 38 253 <:9B +29B 32 E2B8 +2
; : 8 42 ; 23 ?9 ' 93 44 25492 25 3FC < B.2
? & ' +2 44<29<+ 3 + 8 B E \B28
' ' Q B* *4\ +2 ' 52 82 + 2 < 8 4 58 +2
< B+2B :B4 5 B2 9 <+WB 2+ &B82 + 2 ' +28 3 B* *
4 *M 23+28 428 B 4238 B ; 2 E2.' 3B 38 89. .G8
A 23. / ' ; ' L 8<B 3 : + 23 +93 5 ' +R882
E 3 \' 253B42 428 25 2B8 428 :B 4238 428 : ; GB 8
?9 ' E 255253 +2. = 2B 49 8 5J 23 G: B2 49+ 3 4 58
952 :882 9 ' ') ' : ; ; 2 @2 5& ' @ ; 8 E9
42 J25 28 42 4\ ; :58 42 <\B 8 42 B 4238 8: +
G 2 4 8 538 8: 3 ; + 8 538 @2 5&25 <9 8 < B+2B 25
. :55 88 5.2 42 . 982 23 @2 ; &25 B <<:B32 9A
J258 ?9 ' 25 :53 E9 ; ' ' & ' H" - ' L] J '
23 ; + \B2 ; 253' # : ; ; 2 E ' 25 828 ; :9E2 ; 2538
B E:+2 25 828 J: 38 23 25 828 4 8. :9B8 ' &283 95
B 423 95 E4B 3 G+2 B 423 '
- ' # ' S 8 ' 23 38 42 ; :58 23 B 4238 ?9 '
:53 + ' . = BJ2 42 B2 8253 52+2 9 . 2+ 0# - '
8 , 5 # ' _N 4 58 ' E2. ' + ' E29B 42 8:5
<23 3 28<B 3 B 423 :9 83 B:3 ' 1 ' #
3' ; < ' F 4 58 ' 9 ' ; : 3 5!#
V' (! ' B J 52 5. :5592 ! \5 \J2 +2 3 B2 49
G 8 ' + 3 5 "7 ' 8:B32 42 4 \ ; :5 ; 8 4&: ' E 25*
4B 3 + R+ G2 #W K ' ; ' ' 4 58 & 3 + 25 ' B*
< < + :5 " = : ; ; 2 E: + J2 < R8 42 : ; 2 # " C '
= : ; ; 2 E: + J2 ' ' 82B 3 <:88 G+2 ?92 # " ' 243
428 5 + :J 28 E2. ' . 28 ; : 38
' Q B* :9*+4 + \2 # ; :9 + 428/
' ' 1 ! ?9 ' \3 3 4 58 .2 3 B: B ' ' B*
:9 + \' ' *
F , F - 0*@@ ' Q B* :9*+4 ' ; :9 + \28 23 5:5
B* :9*R \/ ' L] ' & ' :9 + 2B 4 58 952 . = :82 23 +

; 233B2 25 4 \8:B4B2 ' B :9 + 2B 5 58 952 B ; : B2
' ' 4B 5J2B G:9+2E2B82B* 5 ' B :9 + 4
; 28 < < 2B8 ' Q + 283 ; + 2B
- ' (! ' 2 ; :3 82 ; G+2 :B ; \' 42 ' :9 P
Q. : ; ; 2 4 58 5 ' 23 , ' 2<254 53
. : ; ; 2 + 283 8 58 = 83:B ?92 :5 52 8 +3 ?92+2 25
283 &:B J 52 ' 2 <+98 +2 X + :5 ' , ' 8 J5 2*
GB24:9 + 2B +2*5 < : + 3 5 ' ' ' +2 ; \ ; 2
8258 ' 23 &28< J5 : , ' G4J R2B23 J B
\' + ' = \32 .28 ; :38 :53* +8 42 & 5 + :J 2 E2. ' 5:3B2
, I ' .&283 .2 ?9&:5 52 <293 4 B2
3' ' Q B* :9*+29B ' ; : + .28n
' ; ' 2+9 ' ?9 ' :9 +2
3' 3 ' Q B*J = &/ ' ' :R ' " '
' Q *B *G:* &/ ' ' = :82 E 52 23 B*
+2' \' @ ; 8 :5 5&253254 42 < 29828 < B:+28 2
8:53 <B:<:8 : 8 8 . = 58:58 23 \B G:+28 ! + 9 '
" ' 53B2 : ' E29A*39 ?92 ; :5 2 ' B 3 +2
. = 2B. = 2B 428 B G:+28^ $9 5M2 58 * ' ; 5 J2
\< 9 8253 +28 < B:+28 9U ' ? & ' ' " ' 283 = : ; ; 2 '
\' 4:552B 8\ ; 253 4 58 3:9328 +28 B G:+28 ?9&:5
8& E 82B ' 42 +9 ' 4 B2 " ' , ' ' # 2
E253B2G+2 ; 4 ; 2 ?9 33:58 + ' B G:+2 3: '
"> < ! ' " ' $92 &:5 .2882 42 8& 5?9 \32B 89B +2 32 ; <8
?9 ' 82B A \' <:9B &253B \2 49 B: ' ; 529B 9 :582 +
?92 &:5 52 A2 < 8 <+93 \3 ?9 3:BM2 58 ?92 ?9 5M2
\' ; : 58 ?92 &:5 52 4 \2 42 988 ' ?9& 52 8&R J 32B '
?92 428 B G:+28 - % ' * ' 3 ' E < ' A)
' O (' *! 260 /%#! ' 4! ' 70%* - ' " ' #" ' 1 - / @
%" ' 2" ((-* / ' #" ((0 - / 2%(' # " ' &0 2* / $"((-* / ' (" 2 ' " % " ' " %
#" % * ! %" (%" && " ($0 ' -; * & " (' * / ' / 1" / ' % ' * ! . " ' 0 4* - / % ! / "
(" ! & " (8&&06" " / ' 1 (2' -%! ' "5 9 ' $ ') Y ' DS!"
2"' / 1 "(% -% , ! " $0. * ' - ; & " #" 2" , ! - (" #-% ' , ! " '
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$0&- ; * ! ' #" (" 0 (% ' * & * 7 - , ! " ((* / % (* % % " (' - / ! % - & " (" % - / K
2* + + * #" (' * / % " (#" ' ?) ' ' #0 / (
B J 52 5. :5592 ' 2 2+2B .B: 3 \' 95
B 4 . ' (1 ' <:9B 1 5 ?9 ' 82 3B:9E2
988 ' 4 58 ? ,) ' ' 23. ' $9:+?928B
958 :53 <258 \' 9+ 3 5 ' 1, ' 4 B2 428 G9 28
5 : :58 4 \B 53 +28 3B: 8 :B ; 28 49 ; :3 . 3 \28 4 58
= 8 :B ?332 1 ' / 1 ' 23 1 , ' :5
<293 .B: B2 ?92 .2 ; :3 283 42 2B \ 3 :5 54 492+2
8 58 B . 52 B \2+2 . : ; ; 2
%' " " D$0@' -@#* + #"@ / "E ' (' ' ? 4%
?9 ' 253B2 4 58 +2 B2 B 5 42 .2B3 528 . = 58:58 23
?9 ' < B 33 E: B \3 \' GB ?9 \' 8 5a B . 52 B \2+2 ' 28
J:J923328 \' <29 42 B 8 5 ' \. = 9 2 + ' E2 52 93
< :+ :58 428 . G B238 R2 3 ; ' GB: . ' 42 9B \332 5
E29J+2 R 2G 532 25 988 53 ' B 4:54 52 &95
3:5 ; 25 ? 53) - ' ' - ' ' * S
" ' ' * ' L 5 4 3 42 ; \ ; 2 + ' B*
4:54:5 ?9 54 + 93 B ; 2B 25 ! -
3' 3 ' Q *B *+ :5 ' ; : + \28n08 ' 2B ; 2
42 <\. = 2 ' \. = 94 4 58 +2?92 +28 <\2G2:B8 + 9*
; 253 49 29 <254 53 + ' 59 3 <:9B 33 B2B .2B3 58
<: 88:58
' B:G G+2 ; 253 95 4 ; 593 ' 42 @ 3:B8@
3' ' Q *B *5 *8\ 822/ 6 ' L $9 '
283 4 \' + ' 5 39B2 42 + ' B 52 ?9 ' 25 ' & << B25.2
' B G+2 23 898.2<3 G+2 9 \3B2 B \49 3 25 <:98*
8 2B2 < B + ' 3B 39B 3 :5 &2.B 2 ; 253 32 283 +2
<\B 8<2B ; 2 4 ' B9 3 428 JB ; 5 \28
' ' 3' , ' 42 ' B 52
' Q *B *5 *@&/ ' ' 5. 25 32B ; 2 42
:939 ; 2 ' B: 3 < R \' 9 ; 295 2B <:9B +2 G \' ; :9+9
' $ ' -
' Q+ *4*5&U ' ' :94B2 G+ 5. = 2 ?92
&:5 :G3 253 < B + ' 3B 39B 3 :5 428JB 528 428 . \B2 *
+28 ' 2 G+ : . ' 25 2B 5 \' 52 ; 2 4 3 B 25 ?9 ' E + 2 &*
.B *3* + 42 + :5 9 J \5 \B + 428 . = 38 >2 8:9 <? :552
4288:98 25. :B ?92+?92 ; . = 52 25 52 32 82B3
4& \3B2 B 52 B ?9 54 39 82B 8 8 . @2 5& <<B:*
G2B 8 < 8 ' ' - 1 ' ' "F ' &2A2 ; <+2 ?9
' \3 \' 4:552 < B + ' ; :B3 4&95 ; 295 2B ?9 ' E 3
:9B5 ' 42 ; \. = 532 B 52 23 ?9 ' ' \3 \' <2549
42<9 ' 4 A @:9B8 \' : . = 2 :B3 2 ; <\2 = 2B ' ?92 < K
B24 448:B4 ; ' 5& BB E2 \' & E25 B = ' "
3' && ' < ' F" ' +29B 42 B 52 + ' <+98 G2+2
B 52 42 B: ; 253 ' L B 52 42 <B2 ; \B2 ; BK
?92 E:R ' ? Q ' : +2 B 52 .242 ?9 ' 283 8 '
52 ?92 & B &25+2E 53 2+2 8& 33 . = 2 9A ; 9B8
428 ; :9+ 58 ' L 2<B: . = 2B \' ?92+?9&95 + ' B 52
+9 ' B2<B: . = 2B ?9& + 283 42 95 + 2 42* ; 295 2B 42
G 882 2A3B .3 :5 ' 5 52 + ' E2BB 3 <: 53 E .3 53
8:5 :B J 52 S8:5 ' 3B 832 ; B ' B2<B: . = 2B + ' B 52
) ' # ' B ' L > :9 ; \2 428 B 528 3253 3 E2 42 < B
#25B ' ' < :9B 89B<B254B2 B 8 Q25 "%7 / ' L 2B ; 2
42 <2 539B2 :552B 4 58 + ' ; 52 <2 54B2 E2. '
428 :9+29B8 . B28 23 428 ' L :9+29B G+ 5. ' 42
:B 52 ' F ' B 2A3258 :5 <:94B2 ?92 &:5 :G3 ; 3
< B + ' 3B 39B 3 :5 42 4 E2B828 8: ; 25.28 ' L 2B ; 2 42
<= B ; . 2 ' B 528 \ ; : + 25328 22+28 42 + 5 ' ?

[illegible]

[illegible]

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!   !   '

7-" ' *'("&"%' $O(2-2!&-' 2*'("&"%' 7O'/-' #"' 4*&&(' 'O@'
+O((-('"/'$*'+"'#"' ;*!44"
'8 $ ' "(7A
%' 'D$O@((-"E'(' + 'NN d' "/!"'#"' ;*%O/-,!"'
-7"'*!'O+"O!'O#"2%"'#"' $O("-O%-*/'NN d'@' ' 7#'
"'+"'#"' 2*/268&-*&*7-"' "'2&"(' *!' ;O!#"(',!!*/'
'"+O',!"'(!''&O' '*;"'#"('2*,!-&&O7"('NN "'+"'#"'
&!&6"'-"' "%-%"('4&O/26"('+-/2"('(!''&"(,!"&&"('"@'
4*("/%' &"O' %O;&"('#"('.-*&*/('#"(' ;O(("('#"(' 7!-@'
%O'"(' /' #-%' 4&!('(*!."/%' "2 (("(
' $ ' O%' (';O/#"
&$-' ' D$O@((-@-'-"E ' O#5' "'+"'#!;-(@'
%*-'"'/O%!'"&&"' ?O',!-' #"' ;O/#"(' *,!-&&O7"('%' $O(@'
2--' ' "'+"'#"' ;*%O/-,!"' 'O/26"('4"#*/2!&"(*!'
4-%-*&"('$O(2--('2"!:' ,!-'(*/%' O$&"2%-('#"' $O("-O%-*/'
'# $ ' O%' (';O/#"
'D$O@((-@/O@9!E'('+ 'NN-I' "'+"'#"'$*'K
%-$-2O%-*/' 2%-*/'#"' $O-'"'#"('$O(2-/"('5*!.'O7"'$O-%'#"'
$O(2-/"('NN d' "'+"'#"' 4*/%(' "%' 26O!((-"(' 4"'OK
%-*/',!-'2*/(-(%"' 6'4&O2"'' (!''&"(' ;*'#('#!!/'2*!'('
'#!"O!'#"('$O(2-/"('#"(%-/-"(' '&"('4'*%-7"' ' ' "+@'
4-2;"'' -++"'(-*/'#"('%"''"(
-'# $ ' (-
$ - ' D$O@((-@/O@%"!' '%'-@(H'
";' Q!-' $O(2-/"' ' U!/' 26"$' #!"(2O#'*/',!-' ("'
2'*8O-%'!/'&*'"[2"J'"&".O-%'6-'*-,!"+"/%'("('+*!(K
%O26"('(*!'-O-%' O."2' !/"' .*&!4%-'+O'%-O&"'%'#*/@'
/O-%' (O'4'!/"&&"'!/"' ":4'"((-*/' $O(2-/O%'-2"'
#' # /0 ' ((' "'=7 # - ' - ')'5
-'# 'S 6 8' 8. 5 329B0 Q
-bc (!' (- #' 0
'D$O@((-@/O@(-*/5'"/'."('#"'2-/,
(8&&O;"(E'(' 'NN I' 2%-*/'#"' $O(2-/"''NN F' O2!&%&'
#"'$O(2-/"''&"!'4'*-"',!!*/'O%%'-;!"' '2"'%O-/('O/-O'
+O!:' O'$O(2-/O%-*/',!"'&"' ("'4"/%'":"2"'#-%@*/'
(!''&"''*((-7/*&'NN !-((O/2"',!"'&"('O#"4%"('#!'+O@'
7/-%-(+"'4'-%"/#"/%"':"2"''(!''&"('4"'(*//"('(*!@'
+-("(' '&"'!'('*4-'O%-*/('NNYF' -7' +4'"((-*/'2*+@'
4O'-"' ' O2%-*/'#"' &O'$O(2-/O%-*/' '&('U&"('(*6!/'(J'
4O(("/%'&"!'.-"'(O/('O.*-"O4"',!""%%"'"4'-("/%O@'
%-*/'(-' ("/(-;&"#"!'&O'#-.-/-%-'U!*'#'"#"' !!/-."('(9'
%O/%' &O'$O(2-/O%-*/'#!'+/#"'*;("#"'-%'&"!'('8"!:'
6'<B ' 0 ' !"(%'#*/"' !/"'2*//O-((O/2"'-+@'
4O'$O&%-'%"&&"',!!"&&"'4"/%'-(!&%"'*'#!!/"'4"'2"4K
%-*/'2*/$!("'%"/!'%'-'.-"/%-2*/'%'-:'
.-'-%-'*!'#"'&O'$O(2-/O%-*/'4"'4O((-*/(H' ,!-'%*!'("(5'
4"!."/%'+4'!/%"'&O'.-.O2-%"'#"("'$&'O'#!"(' 8"!:'
/*!('O%%'*-;!"'('! .-#"/2"' = ' .)'
A' " '@ -! '4'GO(' *!%' +"' '%*'O(4"2%'U#"'
&O' ;"O!% J *!'(!2'-"' *!'(*!4-'"5' %'2"%' &O/',!-'
(!-%' %O'$O(2-/O%-*/' "+;&"' #"' / %' '-/(%-/2%' &O'
' . &O%-*/'' !('-'(
'# 'S 6 8' &(' 98253' 42' .2B3 528' 825329B80
8. 5 3 :58' 23 25.= 532 ; 2580' O'B '
'# $ ' O' (- !- '#"' (- # '$O(2-I'
/"'
'D$O@(-@/IE' ' ' *'%(' #"'$O7*%(' #*/%'
/'("'('%'4*!'2*+;&"'&"('$*((('#!/"'4&O2"'4*!'
4O!&"'#"(';O%%"'-"('*!'4*!'O22"+*+#"'#"+O!!'
.O-('26"+-/(' "('26".O!:'#"'$-("O'O"; ('&O%"'"'
;*!&' "'&"('%'*/2(' "%&"(';"O/26"('#!O';"',!!*/'4!%'
%'*!."'&"('('*&#O%('! ('4O'&"('2*!4('#"' ++*!(,!"%'%-K
"(O!6O(O'#'("'.-"/%#"$O(2-/"(' "# ' ' $
B' ' O7*%' ,!!*/'7*!#"'*//"',!"&,!"$;-('4*!"',#@'
&"'&"('%'O.O!:'#"' !"//+-' &('"/$&O+"'/%&O'"('O-"('
#"'$O(2-/"(';#&O/%'(' ' - C '.'-
-'# 'S 6 8' '52' <2B4 3' =29B2' 5'@:9B' ' = B2
+2E2B' '+' = 832' +2' B E2+ 5' 42' +' <:B32' B: M2' E2.'
88 528' 23 9 ; 2B0 ' K ' ' U6
' 'e ++:50[:= 520 J:3@# 5 53@[=2G252
J 52E' (- '/#!' J:3' 42835 33' :R2B' +:B. 50
(& -3' 2BBR0 (- 3' 49'+ 3' (- '4 BE '4'
(' 8.2 9
0 'Q *88 *5205 2/0 # '<:88 I' 6 B: &
G+ 0 J B '< B'95'8:B3+ J20 < B'95' ; + :2'+ 4 8' 82
.B: B2 8. 5 0 .& 3 3 & 3B2' LL 6 J' 882M < B+:B
95' ; :542 8. 5 '4283 .=:828' <B 8253 80 'O - /'
@'D -! ' 28 28.+ E28' :53' +28' R29A'8' :8. 5 0 ?92
'<+9< B3' 52' E:94B 253' < 8' 42' +'+G2B3 0 8':5'+'
+29BB254 3 .2' 8:53 +28' .: ; < J5:58*4& +R882 ?9'
B2 98253' 42' B2<B254B2' +' :B ; 2' =9 ; 520 9
C! 7#'. ':-
'D$O@((-@/ E'/' ' I' '*!;&"'' 7O'"'
4O''('*'2"&&"'-"'NN ' ("'#-%'#"'2"'%O-/('O/-+O!:',!-'
4O'O&8("/%'&"('+*!."+"/%'("#"' -"!"'4'*-"''/'&O''K
7O'#O/%'$-:"'+"/%' /'O'#-%',!!/"'.-4 '"'2!'("&*/'
#!O!%"'(' !/'2'O4O!#'&"' '"7O'#O/%'$-:"'+"/%'U&"''*(K
(-7/*&J'-*'(,!!-&'26O/%"'&"''$O(2-/"''4O'"("/"'('&'O(2"/K
#O/%'#"'(*/'"7O'#' ' '%'/%'4'%('%'#O/('
$ -&' I' -7' 6O'+%'*+4"'' O;!("'' %'*'
26O-+"'H '&"' $O(2-/O-%' %*+;"'' %*!%'#!!/'2*!4'
? '1 # 'O#!" /7 ' Q!"&'$O/%e+"'#! !'*4"'O'
$O(2-/ '%O' .!"3' 9 ' A '-.' ' */%"' ' ,!"&

<: 53'952' 2BB29B'8. 253 ?92' <253' 3B2 .:53 J 29820
23' .: ; G 25' +2' .= B ; 2' 49' ; 2BE2 ++29A' <253' 8. 52B
+28' 28<B 380 ' C ,7'3'AE50 <' S '4 58' <::
' $5' =: ; ; 2' 4B: 3' <253' 8. 52B +28' R29A' 428'
8 ; <+280 @' @' ' P ' E' B20 & 8<2.3' 4&95'
9 82' ' 8. 5 'E:8' R29A0 Q 'B' 6 ' '$B'
0 3' ' =8:+9 ; 253' ' B 942' 829+252' 89 B 3' < 8
2+2' 8. 520 23 +2' 5 3 8 ; 2' 89G@9J920 #!+ <
SS 0 8' ' 2' 8. 52B0 /' ' 2' . 982B '8: *
; ; 2' 952' 8. 5 3 :5' B 5 ; 2B' +9 *25 ; 2' 253254 3'
B 8:5'89B .2' 89@230 23 +' .:93' +E 50 ?9'+9'< B
+ 3' 428' ++98 :58' 4:53' 8 54B2' 8. 5 3' <8 93B28'
23' 82' 8. 5 3' 9 * ; 20 ' 50:3'E5 0 %'
-'# 0 A9 6 F' :98' B2J5:58' :B2' 25' .= 8.95'
B2J52 3' G 25' 283' 4B: 8' ?92' 5:98' B2J5:58' $92'
3B283:333 +2' ; :542' 285:58' 3' 8 E:58' 8'+28' J258' 42'
.: EB2' $92' 598' 52' 8&25' 8 +3' <2B': EB20 +'.! '
" F' O I' 8' +8' 8. 5253 +28' R29A' 23 +28' 28G+:9 8
8253 0 25' 8:B32' ?9& +' :53' E: B' 8:9E253' .2' ?9 '5&283
<: 530 'A530 C 53' +2' + .3' 59<3 +' 3B: 8 : 8
25E B:55 ' 9 8' 4&9 ' .= B ; 2' '8:98*E: 8' & R 53'
2 ; <: 8:55 0 3' 8. 5 '+' .= ; GB2' 25' 3:9 ; 53'
+29B8' B:+28' H4 5828@ ' 'E$%
' 6'+ 3' (- # '?9'< B +3' 325 B' 9' JB2.0
::A +E83E0 258:B.2+2B0 42' <4:A2 E' :9' 4 3E0 < BK
+:B0 <B:5:5.2B' 428' < B:+28' (- # ' E 3' 4:55 '
B J9 B2 ; 253' 4 58' & 5. 2552' + 5J92' - #
$' ' Q *88 *:*+ *B&/0 ' ' 25B2' # '
.:?9 +2' 95 E +E2' 25' :B ; 2' 42' 982 9
' (!' *8'
3' ' Q *88 *:* &/0' ' ' 2B ; 2' 42' M::+:
J 2' 2B' 53283 5 +0 '.:B<8' <+ 3 0 ?9&:5'3B:9E2' 4 58'
+28' . 5 9A' G+ B28' 23 +2' : 2' 42' <+98 29 8' 5 ; 9A0
23' 5:3 ; ; 253' 49' ; :93:5' 8R5:5R ; 2' 42' 4:9E2
' 6' 3' (! '4 ; 593 ' 42' ('
G 542
$' 'D$O@((-@4 @/19' ";' "'+"'#"'<**@'
&*7-"' Q!-O'&"('O-&"('$O(2- "(
' 6' 3' ('G 5420 ' +2
*'F# *, !"' Q *M * 2* ; 5/0 ' ; ' 2B ; 2' 42'
; B 52' 332 ; 253' 4&952' E: +2' +:3'9&2 2' 283' 25' B *
+=J92
3' ' Q *M * /0:'W3' 2B ; 2' 42' ; B 52'
:R'
$ 'Q *M * * 6/0 ' ' 8< .2' 42' = B .:3
'6 'S 6 8 0 8:+28' 8:53' .= 9+48' 23 ; : 8328'
<B28?92' 9' 82.:54' 42JB 0 A '@' ,7# -' ' N"
O I' 8' 28' 28<2.28' <B 5. < +28' 23' <+98' J252B +2'
; 253' Q ; J52 3280 8:53' +28' 2 280 <: 80 M2'0 J2 8
828' <: 8*. .=280 '58' '%%%
-' (#' 3' ! 7 ' :4' 7 ' 49' JB2.' b J)
: ; ; 2' 4:5 :3' 8 J5 2' 988' 952' G B?920
+' 283' <B:G G+2' ?92' .2' 5: ; ' ' 3' 4:55 ' 9' B9 3' '
. 982' 42' 8 ' :B ; 8
' # 'Q *.= :5/0 ' ' :+:J 8 ; 2' ! :3' 5
J 8' ?9'8&2 ; <+: 2' <:9B' 4 8 J52B' +' ; :420 +2' 3:5' 23'
+28' ; 5 B28' 49' JB 54' ; :542' 23 +2' G2 9' ; :542' 9
; ; 2' 28' 53 8 58' 42' +' 8= :5'R +9253'H' 9A'
33 +2B 28I' 428' ?9 3B2' <: 538' . B4 5 9A0 .9'58' C
' '1 -=7 -)')'
' ' 5J+' & !-'49' B 5 8' !-
' # ' Q *.=+:*5 *G+@0' '
>2952' =: ; ; 20 @2952' 2 ; ; 2' ?9 '283' '+ '3 32' 42' +'
; :42' '?";' 25 2' 8= :5 G+2
-' (!' 5J+' & !- '42' & !-
'H 3*M * /0 W' -' 2B ; 2' 42' ; B 52' 28
E: +28' 8 2530 82' 4 3'+:B8?92' +2' E253' =2' 4:552' < 8
G 25' 4 58' +28E: +28' 23' ?92' + 'B + 5J92' E . +2' 5.28
8 ; ; 2530 6 '"NFC0 4 58'
-' (#' B J 58' 5.:5592
3' 'Q3 *M 5U0 @' ' 254B2' ; + 2' " '32B 80
42' GB 54 ++280 E2.' + ?92+2' :5' .:9EB2' +2' :9 ; 2 9'
42' :BJ2
' 'Q *83&+0 ' ' LQ ' ! J5 .25.2' ?9' 82'
4 <+2 2 23' 8& '2' 2' 832' B:' +' 25 4 4' 3 3 95'
B:'3 ; 42' 23' E 5' ?9'5& E 3' ?9 '49' 832' 23' 42'
&:BJ92 0 'O! 'B 'E 0 F' $92+' 82B ' ?92+?92'
@:9B .23' 25 53' ; 2BE2 ++29A' +' GB E2' +2' 832' :B
J92 ++29A0 3' 52' 82' + 882' <: 53' 8 49 B2' '3:58' 828'
33B 38' < B +29A0 '? &' - ' ' 2' =832' 42' + '2:9B
E:+9<392982' 42' :5S<:9E 3VG+2882B' +28' R29A'
; +2' 9 8' :5' 42E 3' E: B' ?92' .2332' .:9B ; ; 2' <:
88 3' 9B:<2' 23' B254 3'+28=: ; ; 28' <+98' 8:. G+280
'C! 7#'" 'C' 9' :832' 428' JB 5429B8' 93B2K
: 8' 253:9B 20 ' @(& ' 0 ' LL 6' 2.3 3 :5' 42'
< B 33B2' E2.' +9A2' 23' 2.+ 3' 34' B2 ; B?9 ' =:BB29B
?92' .2' <29<+2' ' ; :53B ' :B8?92' E2.' 3 5342' 832'
+' 'E9' 828' + .2 9A' H42' 8 BI' ! B.=2B BB:J ; *
; 25323' GB E2B' 5:8' 4B <2 9A0 ' O! ' ;5' "
398' 2A=:B3:58' 3:98' .29A' ?9'<29E253' 4:552B' <+98'
G:54 ; ; 253' ' B2' <:9B' +29B' 8 +93' 32 ; 2' .2'
?9& +8' :53' 3:98' +28' @:9B8' <: B' +2' 832' 49' 8 .+20
'3'AE 90 <'M M' 28' 32 ; <8' : '+2' 832'5& 3 3' < 8

42E259' 952' G 258 5.2' ' 95' ; 5 83 B2' 4&=9 ; + 3 0
' #' 7-' , #' 58' +28' 4 .+ ; 3 :58' .25K
3B2' +' 5 5.20 .2'5&283' 5'+'J 5 B:8 3' 5' 5@983 .2'
?9' B..+ ; 2530 ?9: ?9&2+28' 25' 2988253' 8:9E253' +2'
4B: 3' 23' &:.. 8 :50 .&283' &25E 2' ?9' <:9B89 3' +2' 8320
:80 1!- " #' ! 7#' .G' 3G' 2' 832' 5:98'
3 253' + 29' 4&952' = 932' 5:G+28820 "
' ' $92* ; 28' B ; 28' 8 58' 8320 2 ; G+ ; 2' 428' 4:9
+29B8 ' ' , #' ' LL 6' B' 2A3258 :50
3 + J20 :83253 3 :5' 4 58' +28' .328' :9' 4 58' +28' < K
B:+28' ' << 5 B2' B2?93' 8:33 .: ; <+ ; 253' E2.' 95'
832' 42' <B E 3' <B:E 5. +0 23' 52' +9 ' B254 3' < 8' +'
4 A ; 2' < B3 2' 428' . E 3 8' ?90 +' 2=' B2.930 6'
.! ' (! ' 0' N' :9@:9B8' 95' <25' 42' 832' 253B2'
< B ; ' 5:8' <+29B80 ' 'C #!- ' ! 8' 8 ' ; 982'
H42' :58 B4I0 25' B 5@ 8' < B+ 53' /# (' 23' + 3 50
3' 4 58' & ' ' 89 ; 530 < B' :5' B23:9B' JB:328?920
: ; G2B' 42' 828' JB 548' ; :38' +2' 832' 4 5328?920
'?#' ' ' &283' 25' 8< J52' 95' S ; 5 80 8:98'
8 G2+20 ?9 0 <B 8' + ' ; :B3' 42' + 'B2 520 283' B J253'
49' B:R 9 ; 20 ?9 0 3:9@:9B8' E 39' 25' .:B ! 2B0 ; 23'
8:5' 832' ' :9+2B' 8:98' 828' 8 54 +28' +2' 832' 28<
J5:+U 'C! 7#' ' " " :33 82+' ; 8' <: 53' 42'
: +8' 4 <2582' 882M 9A' JB 548' +2' 832' 428' B2K
JB2380 # ' C!-' ! ' :58' H '$9 G2B:5I' 89.
.: ; + ; 253' 8 58' <29B0 8 58' 8320 8 58' ; 9B ; 9B80
' ' " ' ' ' J' 28' +233B 8' H42' + ' = 5210
$9 0 3B <' 25:BJ92 ++ 8' 49' 832' 42' +29B8' +: 8 '9
& ' 'C ' 832' 5& ' < 8' 42' <+9B 2+
-' #' :B52 ++20 25' ; 3 3 :5' 49' AE 6' 8 . 20 '
4 3' '8 58' 2 '+'253B2' E2.' .+ 300 ; +8' E:3B2' <:
< 9 +'' ' 2' E:+3' <: 53' 89B' 8:5' B:53' 42' 83' 5 '42' ; 2K
5 .20 ' '"7'#! ' "NNC
-' 'AE 68' ' +2' 82BE B '<+98' '+2' ; 52B' 42'
428<2582' 23' 42' !838: ; <3929A' ?9& ' JJB 54 B0 @ '
C -'<' "C
' ' 3' 7 ' 98320 <B:<B2 ; 2530= 9329B0
4&:9' / 7 '\ 32
3' ' ! 'Q *83&@0' ";' 2B ; 2' 4& 53 ?9 3 ' B:
; 52' >: B8' 83280 @:9B8' := +' 3 3' <2B ; 8' 42'
B254B2' + '@983 .20 < B' :<<:8 3 :5' '@:9B8' 5 8328
-' (!' 3' 7 '#' ' + '@983 .20 42' # '
<B:5:5.2B
'Q *8 /0 ' ' 7#' LL ' 28' 3 G+28' 49'
. +254B 2B' 428' 5.+258' 2 ; 58' 28' @:9B8' ; +
=29B29A' 3 253' ; B?9 8' 4 58' +28' 8328' LL 28' 8K
328' . ; 89+ B280 B2J 83B2' ?9' .:5325 30 :93B2' +28'
3B : ; <=280 +28' 5: ; 8' 428' .:589+80 428' 4 .3 329B8' 23'
428' .25829B8' LL +' 82' 4 3' ?92+?52 : 80 4 58' +2' 83R+2'
+2E 0 <:9B' . +254B 2B' 25' J 5 B +' ' 3 3G2 9' <:9B
+' B 5.2' 42' E: B' 828' 8 ; <+28' B2+ J+29A' B J+2B' '+'
= 52' +28' 8328' 4&95' JB 54' 2 ; < B20
H - ' E0 E0 8' LL]' J' 23' 4 58' +2' 83R+2' 8:932590
B2J 83B28' <9 .8' .:5325 3' +2' B . 3' 428' 38' ; ; :
B G+28' LL 28' =8328' 8 .B 8' 42' +&cJ++820 +2' ; B3RB:
+:J2' 3 J' 28' ; :59 ; 2538' .B 38' ?9' .:582BE253' +2'
8:9E25 B' 23' + '89 32' 428' E 52 ; 2538' ' E:98' B254'
3:93' 'E293' 42' E:3B2' ++983B2' S +2' 58' 5:8' 8328&
J B42B' + ' ; : B2' 32B52+20 ' ' > 5+ 0 E0 A'
2' ; 258:5J2' B 8 42' 9' 32 ; <+2' 42' ; : B2' +R'
JB E '428' ; 58' 42' +'.B 49+ 3' ' :98' .28' \8328' 428'
'32 ; <8' 4283 5 8' 'B ' &= 83: B2' 3' <:9B' + ' E B 3 0
' 'N' ' =8.B B2' 8:5' 5: ; ' 4 58' +28' 8328'
42' + ' J+: B20 82' B254B2' ++?83B20 ; ; :B32+
-' (!' 3' ! '8:98*2532549' # ' +28' #EB28'
:= ' 3 253 ; B?9 8 +28' @:9B8' 4& 94 25.20 42'
@983 .20 42' # '<B:5:5.2B
! 'Q *83 *4 *24*M2* ; 5/0 :42'
&952' ; 5@ B2' =83 4 2982
' ' " 7 '23' +2' 89 A2' ; 253
! S0 ' Q *83 *4 *2=0 2 =*' +0' 54@
' 6' $9' . 982' 42' &2559 0 49' 4 J:43 +' H! '42& :+K
3 B2I' 333 +2' <B2 ; 2B' ?9 '4 B2J2 ' ' &98 J2' 83 4 29A'
42' 52' B2 ; <+ B' 95' 4 8.:9B8' 42' B .2<3 :5' ?92' 428'
+:9 5J28' 49' . B4 5 +' 42' .=2+ 290 'C ')'
A#' 1! - '& ' 7#' '! 75# '" ' > 7 7#"'
K -# " ' LL ' +' 82' 4 3' 988' 428' <2B8:5528'
>2' E: 8' G2 9 .:9<' 42' J258' '+'.:9B' ?9 0 82' 82BE 53'
42' ; 332' + G2B3 0 52' :53' <: 53' 42' 4 .9+3 ' 42'
4 B2' ' 23' =: ; ; 2' 283' 83 4 29A0 <:9B' 4 B2' 25
59R29A0 23' ?9 ' 5&:82B 253' & .B 20 7 (' !-/'
'<' % 0 4 58' " 7 '+2' ; 2' 3 58' <:9B' 4 3'
?9& +' ++ 3' G8:+9 ; 253' 5:98' 4 G BB 882B' 4&95' 8'
\83 4 29A' <2B8:55 J20 ' H7B '"? '5 0
7' ' 9G83 53 E2 ; 253' >& B 8' 42' ; '<258 2' 532B
B: ; <B2' +2' : :9B8g ' :9B' 95'+ 83 4 29A0 ?9 '5& '<:9B'
&:B4 5 B2' ! '+2' 4:5' 42' < B+2B0 5' 28< 3' 42' 82'
3 B20 0 . #' #'
& ' 6 ' .' ' >2 E: 98' @9B2' ?92' @2' 5& R' @ ; 8'
B+25' 3B:9E2' 42' 3B <+:5J' 5 '42' 83 4 29A' 4 X' E:83B8'
2G3B23 250 $'3'E 0<' '#O/('
-' (#' B:E25?' / ! 3' 28< J5' 23' 3 +' !)'
" ! !3' 49' + 3' " ! 7 '42' " 7 '4 J: U

3' 'Q *83 *@ * *B/0' ^' ' 25B2' 4& +*
J928' ; B 528
' $ ' 0%' , '(* + + "%
&$-' D$O@(%-@9-@" '-"E ' "; ' "' + (' #0' ; *%0 / -@
J! "' ' ('" #-%'#"(' '0 + "0! : '#"(' $&"!'(' , !-' 40'%0/%'
-!! /' 4*-/%' 2* + + ! /' '(!"&"'"/%' -' &O' + +"' 60!%"! "'
"%'$*' + "/%' ! /' 4&0/' 6*'-<*/%0&' NN /'#-%'0!((-' , !"'
#"(' '0 + "0!<' (*/%' $0(%-7-#(' &*'(, !"' '044'*26#(' #!'
%'*/2' -&(' ('" #-'-7"/%' 4' "(, !"' ."'%-20&" + "/%' ' ":'
&"' " ", , ' '=' D21"(%' &"' 4"!4&-"' 48'0K
+ -#0&J
-' ?'+ 3' , '42' , '+ 332
'D$O@(%!@"#@<"@ + 0/E' /' 1!/"
; 5 4B2' 8392982' '283' 253B4' 8392982 ; 253' 4 58'
+ 'E +2
'# $ ' - , , '"%' &"' (!& :"'
O' 'D$O@(%!@"#' "#@<!E' 6' NN i'Q!-
; 2'+2' J<0'+2'+9A20'+ ' ; J5 .25.2' :9 B B 8*39'
+:5J32 ; <8' 3:98' .28' B: 8' 283929A^' 9
' ' :+=2B3' 8:93 53+& 3 3' ; +JB4' +2'+9A2' 4&95' ; 3*
3B2' 83929A0' ?9' '<B:4 J9 3' 3:93' <:9B' B254B2' 8:5'
B4J52' 2.+ 3 530' 5' = , ' R 'Y 'LL ' 9' +R '49'
8320' 25*< B+ 53' 428' .=:828' 5' 83929A0' 4?9 < J2'
253' 2BJ28' ?9&25 53 ' & 542' E:+9<392982' :9('253'
42' ; 238' .=: 8 8' 8 '3 G+2' 83929820' 9'
'.='9' G8.9B' :9' 83929A0' ?9& ; <:B38'5:3B2'
8 +2^' =2' +2' <B2 ; 2B' 428' G 258' 283' 95' ; :9B' 3B 5*
?9 ++20' .' ('0 ' 50' 8' LL F' J' $9' 8&43 +2'
.: ; ; 2' = 3 +2' 832' 3' ?9&25 5' 29' 52' 42 ; 542'
< 8' 9A' <2B8:5528' 42' 8:5' 82A2' 952'89G+ ; 2' B 8:5'
5' 952' 8. 25.<*>983929820' ; 8' 952' 44E:3 :5' 3254B2'
23' 952' : ' 8 ; <+2' ..: ; < J542' 4&95' =9 ; G+2' 8 K
+25.20' $- - ' ! , " :5' 3:9B' H42' & 4R+2I'
3 ; <+2' 23' 5 ' 5& ' B 25' 42' 83929A0' '& ' '" ' 5'
5' (:98' .: ; G+2' < B3:93' 4&4+:J28' 83929A0' 5U' 1' '
:98' 4:53' + ' < 234' 8:+ 42' ' :5' 4&43 +2B' 9A' R29A' 42'
83929A' 42=:B8' 3' 4& E: B' 4& 54 8.B238' 3B 58<:B380'
83' <:9B@9J2B' 93B9 '3:9@:9B8' +2532' 23' 3 ; 420' 6 !'
' #"'* ' ,'" ' ' ' 5' 52'
E:+3'<B28?92' <+98' ?92' 42' .28' M +28' 83929A' ?9' 5&:53'
428' R29A' ?92' <:9B' 428' ; 84B28' 4&44 3' ' 1)'
'&, ' ' 52' ; 2' E 532' <: 53' 49' 83929A'
2 :B3' 2' E: B0' 8 58' ; & + B ; 2B0' +28' <<B 38' 42' ; '
; :B3P' >2' B2JB2332' + ' E 20' 2 2' 493' ; &43B2' .=4B20'
9 ' 952B0' 50' 'H' '82' 4 3' 988' 428' <2B8:5528' 25'
.2' 8258' :98' +28' @:9B8' :5' R' : 3 ' & J5:B 53' 8&4*
E J2B' 25' 8 E 53' 83929A0' '# 'A ' LL" ' 9'
B4J52' :BJ92 +' 28' + 3B28' 83929A' :B8?9& +' H 25*
5 .=4B GI' 82' .B:R 3' 44@=' ; +3B2' 42' 4B98 +2 ; 0' +2'
2 J529B' 4&95' 8:9 +2' 829+' 4 88 <2' 3:9328' 828' <258428'
839298280' ' ' '" * ' >,/ ' 0
4'O ' H
' ' :.&I'(' *'(, !"' 9"' .-"/(' ' 044'*$*/#-"'
&"! ('4'*4*(-%-*/(' 918' .*-(' ; -"/' #"' ; "&&"(' '%' $0(I'
%/"/("(' 40'*&"(' + 0-(' 4"!' #"' (*&-#"(' '0-(*/('
' ' #0/('&"' ! ' '
' ?' 0%' , , '#"' , 'D.*8' '%E
D#!04'#(' 20## + -"'&"' %' ("' 4'*/*/2"5' 0!
: . ! i' (-#2&"' 6-$$&"%' 2 '4' 0%'A' /*%"'0!((-' , !"'
&"' '("' 4'*/*$-2"' + # + "' #" .0/%' ! /"' 2*/(*/ /"H' 4*!'H'
%0!%' 4&!(-"!'('0!((-' /"' &"' 4'*/*/2"/%' 40('"%' -&' /18'
0'0!2! /"'0-(/' 4*!"' /"' 40(' 4'*/*/2"' '2* + + "'
'*%' " '"%2 5' &"'%' ("' &-"' / !/'$0@%'-/(!44*'%0 ; &"'5' 0!'
4&!'-"&' ('("' &-"' #"('$0@<' -/(!44*'%0 ; &"' (5'$0%(' '- + "'
0."2' 40('%0('"%2 E' 6' , ! -' / C ' !(-%#' , !!0 ' + 0(@'
2!&-/'9N 0' *%' ' /-0-(' ?0-('(!-(@9"' 40(' ; -"/'$0%' #"'
.*!&*-"' '0-(*/ /"' -&' #"' #'*-%'0 ; (*&!'910-' 4*!.*-"'
#!*'#*/ /"'%' ? '# ' '$N ! ; (%0/%-."+"/%' ?*/K
(-"!'('*'%*/('0!((-'/"'$0-(*/("' ' '#"! :'
+"((-"!'('4*!%'0-"/%' '"."/-"'(!"&"!'('40(' !'
'&"' *!4"' Y' ?"' .*-& '4'-('2* + + "' ! /'$0%'
"%'(0/('!/'4"!#!"$ '*/%"'-"' 910! + -' 4"-/"' '(*'%-"'
#!-/%'-7!"' " "' 'O ' '* +, '(2' -' !K
%'"$*-(' (!"' -!6*'//"!"' */' #%0-%' ##&&20%5' /' + 0/'
, !-' (!"/(' 4-, !"' '4'#("/%' "(%' !/' &0%' "
$, ' 'A' 9D' "' ("/(' , !-' "(%' &"' ("/('4'*4'"' 0'
.-"-&&-' ' 0' Q!-' "(%' &0' $*-(' (0/(' 9!7"+"/%' "%'
4&"-/'#"' 2* + 4&0-(0/2"' 4*!"' &!-@ + # + "' Q!!-+4 '%"'
#!#%' "$0%' *!' #"' /"' !#%'"' 40(3' /' 2'*-%' %**9*!'('
/"' -"'40(' #%' " " ' #0/(') ' N Q' ("'
#-%' , !"&, !"$*-(' #"(' 26*("(' &' 8' 0' 4"!%@#%'"' 9"' /"'
(0-(', !*-' #"' $0%' '.*!(' "/.*8"' (0' + ##0-&&"' 9
= ' %& ' + 0-' %AMX' NN ! ; (%0/%-."+"/%'
?0-(' 9"' /"' 4!-(' (*!$-'-"' , !!!/' $0%' #*/%' &0' + *&@'
&"((' !0' '-"/' 4*!"' (!044*8"' , /!!/' .0-/' /*K
; &"(("' "' 40'"' -/(*&"+ + "/%' #!' +#'-%"' #!0!%' -
'# ' :R 53' 95' 3 8& <<+ 94 B' 4&95' :9*
; J2' + ' 4B: 32' B 8:5' 3B4G9.=2' " .= ?92' < J20'
'1'5' 2:932M3:93 +2' ; :5420' 88 49.:589+3 53*
5' 3' ?92+?92 : 8' :9EB2' 95' E 8' ; <:B3 530' ; '
& ' ' $92+2' =:BB G+2' <2 52' 95' =: ; ; 2 '?9'
5& '?92' G2 9.:9<' 42' ; 4B 32' <:9B' 3:932' B2.: ; ; 5*
+ 3 :5 ' 42' E25 B' 9' 5 E2 9' 4&95' 3' ?9' 283' 25

2B44 33' ' '5' 5' 2. B32' 3:93' .23' 33 B +' ?9'
3&283' 23B 5J2B' <:9B' <4543B2B' @98?9&"' 3: ' ?9' 5&28'
?9&95' 30' 5' 1' :93 +2' ; :542' 4 3' 4&95' 3' ?9& +' 283'
30' <2B8:552' 5&:82' +2' +9' 4 B2' "' +9 * ; 4 ; 20' 5U' A '
5' 3' 283' .2+9' ?92' +28' 8:38' .B: 253' 95' =: ; ; 2' 42'
; 4B 320' "' A ' 2' 3' 283' 253B2' & ; <2B3 5253' 23' +2'
8:30' +' 283' .: ; <:82' 42' &95' 23' 42' & 93B20' 5' 1' '
+2' 3' <:9E 3 .B 54B2' 42' ; +' < B+:B0' +' 8:B3 B 3' 42'
8:5' . B 234B20' " ' G' +98' +' E:9+93' B2' +2' 30'
<+98' +' <B:9E 3' ?9& +' 5&43 3' ?9&95' 8:30' " '&* $
6 , ' C>, ' 3' E ; 0' <' 0' 4 58' " 'Lb ! :*
+ 4B2' 23' : +2 9' &:53' 2 ; <+:R2' .: ; ; 2' 8 ; <+2' 32B ; 2'
42' ; 4<B 8' +' 93' ?92' 42' .2' 3' @& BB432' +28' .: ; <+:380'
3' ?9&"' B:B2 ++2' 95' <29' @2' +9 ' 4 82' 429A' ; :380' '
9 ' ; 0' ' >2' 8:B8' 42' .=2M' 95' 3' ?9 0' <: 9' ; &2 ; *
<: 8:552B0' >2' <25820' 2A<B48' .=2M' +9' ; & ' :B24' 42'
4 52B0' 3' ; 'LL ' +' 82' 4 3' 42' .2+9' ?9' ' 428'
<B43253 :58' 9<B48' 428' 2 ; ; 280' :9' 4:53' + ' < B9B2'
283' 3B48*B2.=2B.=42' ' :+:53 2B8' 95' G2*=: ; ; 2'
283' 30' @2' & ' B2 ; B?94' -' 82332' =' ' +' ' 3:B3'
4&43B2' 30' ; 8' +' 'B 8:5' 4&43B2' G2 90' 9' >29 '
42' & ; ' 23' 49' '-' ' 0' ; ' < 9EB2' 25 530' +28'
; :38' 42' 3' 23' 42' .:?92332' :53' 434' 5E25348' < B' &25*
E 2' <:9B' 445 JB2B' +28' =: ; ; 28' ; G+28' 23' +28' @:+ 28'
2 ; ; 280' 'A , ' , ' " '8.' " '42E 253
253B2<B25 53' 8 58' 428 B80' 23 3' < B' ; 9E 82' G:5320
@' ' '>' ; ' ' ' 9G83 53 E2 ; 253' +' 52' 82B 3'
<+98' B 25' 8& +' .288 3' 4&43B2' 95' 30' ' # ' + 2*
3:9B' " /, ' ' $9: +' +2' <29' ?9' +9' B283 30' B4*
3 ++:5' ' <9' +2' E254B2' :9B' 95' 3' ?9' + ' G 33 30'
' -
' 'O I' 8' 3' 283' 95'E:. G+2' 42' 5J92J:3=
H 5J924:.I0' 23' 8 J5 2' 5:5' 8 ++40' 8 58' 82+0' 58 < 420'
\ 42 ' < 3' ; 23 <G:B2' 8 J5 2' :+0' 5 R80' 428<:9BE29'
42' 8258' 28E2534' 42' .2BE2 90' 'O 'E0' O '
S2BA28' 283: 3' 5' 30' ?9 0' 25E2+:<<4' 25' 3:9328' +28'
E:+9<32M =9 ; 5280' ++: 3' <B:<:82B' <B A' "' ?9' +9R' 25'
3B:9E2B: 3' 4& 9+3B28P' ; 8 5:5' J92B28' ; : 58' 3' 283'
.2+9R' ?9' B23B25.=2' .2428' ?92' 5 39B2' +9R' 3B:9*
E4280' ? ' ' 7F'
' B:E25?' ' !-' J5:B 53P' 2B: J5' 23'
3 +' 7!;' 49' + 3 5' 77 " ' 58 < 420' :90'
5 8' QE:R' " @
0' ' Q *3 +0' 3 * &/0' :4@' # 6' $9' <:B32'
E2.' 8:' 952' 4283 522' BB4E:. 4 +2' 2' 3 8:5' 3 +' 42'
! 2+2 JB2' 53' 25 5' +2' ; : 5253' 49' 283 5' 3 +' 42'
+ B2 52' H 83=2BI0' 4:53+2 E:B ' H ; 5I' 8&43 3 3 53'
25:BJ 2 + 0' ' O ' A0' ; 0' N0' +' H# <<:+R32I' '
<:9B' 3:93' +2' 82A2' 952' = 52' 3 +20' ' O '
5 0' ' .R+ 0' <:9B' :G+ J2B' ! 5:80' .: 9 ' .2' .=2E29'
3 +' H42' 898I' 23' 25' 3' <B48253' '8:5' ; 530E: '
! ' " ' 9 ' LL 5' .2' 82580' 9@:9B4&=9 0' 3 +'
52' 8&2 ; <+:+2' ?92' G8:+9 ; 253P' ; 80' 9' AE56' 8 4420'
+' .: ; <:B3 3' \ ' <B2<:8 3 :5' 4' 23' 95' .: ; <+4 ; 253' + '
2 ; ; 2' 283' 952' ; 2B' 9A' 5 9 B J28' 3 +20' 9
' 2332' < B:+2 ' .:53 59 ' &:< 5 :5' ?9&:5' E 30' ; '@(
?92' & B ?92' 43 3' 3 +2' ' + 'J+: B2' 428' . < :580' ; '
"' + 'B .2' 42' B9398' 42' 44+ EB2B' + 'B4<9G+ ?920' 9 !'
' < ' 2332' 8 8:5' 283' 3 +2' <:9B' G 33B2' +28'
34328' ?9' < B 88 253' +2' <+98' 9*428898' 428' 93B280'
c' + E' ' +233' 3: ' $9 54' :5' &2 ; <+: 2' 4 58' .2332'
8 J5 . 3 :50' +' 93' ?92' + ' <=B 82' 8: 3' 3:9 ; 42' :B3'
.+ B2 ; 2530' .: ; ; 2' .2++2*. ' '5: ; ' 428' . < :58'
43 3' 3 +' ' B?920' <:9B' 4 B20' +' 43 3' .: ; ; 2'
52E 3 G+2' 9A' B . 58' 4&43B2' E 5.98' < B' +20' .K
< :580' &* ' C1 /' , ' - , ' <' "NN0' LL 2B ; 8'
4& 53 ?9 34' B: ; 52' EB2' 3 +0' + EB2' 8 GR++ 50' B2*
+ 4B2' ' <B44 .3 :58' LL F' ! B?94' < B+2' 4283 5' & 5' 2'
83 53' 3 +' 3' < B 4&=29B29A' 2A<+: 38' :B? 53' +'
4283 5220' B:9E2B:53' 4&++ :5' + ' 3 +2' @:9 ; 420'
' $" ' E0' N' 53' 42' <B2. 93 :58' .253B2' ; :5'
@:9B' 3 +' ! 2' B254B 253' ; 4<B 8 G+2' 23' ; 2' 44 25*
4B 253' ; +0' 9 ') ' ' '5 0' F' LL &G29B2'
3 +20' &=29B2' 42' + ' ; :B3' 2' B: '?9' 8&25' 8:9E 53' '
8:5' G29B2' _3 +20' ' O ' "' 0' ' 'B2 52' 3:9.=2'
<B28?92' 3 +20' + 'G B?92' 4 58' + ?92+ +2' +2' <:+R3=4 8 ; 2'
G B?92' 3 +20' + ' G B?92' 4 58' + ?92+ +2' +2' <:+R3=4 8 ; 2'
B .:5+2' ?92' +28' " ; 28' 428' ; :B38' 3B E2B8 253' & .=4*
B:5' <:9B253B2B' 4 58' +2825 2B8' LL '$9'253B 58' E2.'
8: ' ?92+?9289 32' ; <:B3 5320' 25' G 25' :9' 25' ; +' 2 0'
: : ; 253' 3 +' ?9' 4: 3' ; 2' B254B2' "' @ ; 8' =29B29A'
:9' ; +G29B29A' $9 42E 3 ' 2' .2' 3 +' ..:9<32*
; 253' 4+4GB2B' &=29B2982' @:9 ; 420' ' 9' E'
' "6' $9' <B:49 3' 49 ; +0' 428' ; +=29B8' ' 8+2' E: 4'
.2' GB 8' "' :B52' 8' 3 +0' ' . * ' ; 0' ' 2
; : 54B2' ; 982 ; 253' HB23 B4I' E:98' <253' 43B2' 3 +0
? ' 9 ' 'M' 58' .2' ; '=2B' 3 +' 9' B2<:8' 42' ; '
E 20' ! 28' @: $B8' <+2 58' 42' +: 8 B' .:9+2B 253' 8 58' 25E 20'
'@ ' ' <B48' ; & 3B2' +:5J32 ; <8' + 334' ?92' ; :5'
B E +' B:9E2B 3' '828' E:29A' ?92+?92' :G83 .+2' 3 +0'
' ' '-' ' 3' 8 ' B .2' 3:9@:9B8' 93' 3 +2' ' + '
EN3B20' 'A '5' 298' B48 83 5.2' E 3' 434' *

3 +2' "' ! /" < B3 2' 428' J258' 4& +E :' :5.20'
& ' ' "N' 5 50' E 5.920' 253B +5420' 52' 8 *
.= 53' : 3' :5' + ; 4520' 2+2' 82' + 882' .:549 B2' 9' 8:9*
<2B 3 +0 [5<4590' "C 5' B 88:5' + ' 8 8 30' 2+2'
82' 8:9325 3' "' <2 52' =' ' ; 4 ; 20' 4 3'*2+2' "' + ' "*
3 +2' ; 20' E:98' 5 E2M' <2B4920' E:98' ; 2' 42552M' + '
; :B30' ; '3G' 7' ' 2' .:9< 3 +0' +2' .:9< ?9' 4:552'
+ ' ; :B3' LL N ' 2B ; 2' 42' .: ; ; 2B.2' 2B ; 2' 3 +0' +2'
32B ; 2' <B48' +2?92' +' 3:93' 44+ ' 2A< B2
-' ! ' 3 4' 5& ' <: 53' 42' <+9B 2+' ; &:B2 ++2' B2K
<:9882' 9@:9B4&=9' 7 ' ?9 82' 4 8 3' 9' AE 08 4*
.+20' 23' + JB ; ; B2' B2<:9882[=3 +8' :9B8 9+3' 8&283'
; :?94' 42' .2332' .:53B 4 .3 :5' 28' GB 8' 32' 42E 25*
4B:53' :9' 3 +8' :9' 3 9A0' 'C # ' / #A'
0' C' 3' :+3 B2' "' 8 '89 32' & +8' 5& 584B253< 8' 4 58'
&:9EB J2' +28' . B3:58' 542288 B280' @2' 42 ; 542B '523'
+ ' 8 8 2' 428' 2A2 ; <+ B28' 3 9A' :9' 3 +80' 9 '
+ ' '>?#/ - ' 7' EB +' "CN ' 2<254 53' 428' 4.B*
E 58' 5&:53' < 8' 434' 44.:9B J48' < B' .23' BB430' 23' :5+'
4 3' ' ?9' 283' 25' 2 23' + ' :B ; 2' + ' ; : 58' 448*
JB4 G+20' 23' ?92' . 44 ; 2' 58.B 325' 4 8 53' ?9& +' 283'
<29' 98 34 & ; G 3 :50' ; :9B0' B' 42' =3 +8' 2A*
.48 :53' 3B:9G+2' .2332' .:9B0' " ' K ' 50' '
29B8' 3 38' 95' < B' 93B2' E2.' 8: 5' + ; 348' 9B253'
428' +:38' 3 +8' 3B:<' 3N3' 258 5J+ 53480' ' B2*
" / ' 'D#' E0' "
-' (' ' ' 3R ; :+:J ?92 ; 2530' K
3 +' 2A<B ; 2' .2' ?9' 283' B4J+4' < B' BB2E:. G+2' 4283 5P
9528320' .2' ?9' 283' 954B B20' 954GB2' 2' 5&2834:5.'
?92' 82.:54 B2 ; 253' ?92' 3 +' '+2' 8258' 42' 9528320'
23' +:B8' '8&25' 4 83 5J92' < B.2' ?9& +' <:B32' 3:9@:9B8'
25' 8:' 442' 42' + ' 3 +34
-' # 0' @AE 6 8' : ; ; 2' +28' + 29A' 8:53' 3 9A0
' ! -' ; 0' C' 28' 58' .+ ; 32B ?928' 82B: 253'
3 9A0' 4* !(' " ' $ ' ' "7' ' 6' Y '
4 58' ' 2' @:9B' 42+ ' 2532.:832' 93' 429A' : 8'
3 +' 9' B:R' #25B ' 0' 2+29' B: ' 42' :+:J52' .2' @:9B*
"' 25' "NC 0' 23' 42E259B: ' 42' B 5.2' +2' ; 28 ; 2' @:9B0'
C" ' + # '3' 0< ' C '
-' (! ' 3" '42' 7 ' 4283 50' <B:<B2*
; 253' .2' ?9 ' 283' 4 30' <B:5:5240' " # ' 4 B2' QE:R'
@
' Q *3 *+2* ; 5/0' "5' LL 6' B' 952'
4283 542' 54E 3 G+2' B2 ; 4B2 ; 2530' +' 4: 3' E: B' 9'
32 ; <+2' :9' "' + ' <B: ; 25 420' :9' 4 58' ?92+?92' 24B2*
; :5 2' <9G+ ?920' + ' <2B8:552' 4:53' +' 42E 253' ; :9*
B29AP' 'G 25' 43B2' .:549 3 3 +2 ; 253' .=2M' 2++2' < B'
95' < B253' :9' 95' ; 0' ' 0# 'N' . < 5' '$92'
E:9+2M*E:98^' +' R' '434' <:9884' < B' 8 ' 4283 542' - B*
J 532' =+' =+' E: .' 952' B 8:5' + ' <+98' G2++2' 49'
; :542P' :5' 5& ' ?9&"' .: ; ; 233B2' 3:98' +28' .B ; 28' ; *
J 5 G+280' 23' 4 B20' <:9B' 2A.9820' ?9&:5' R' '434' <:9884'
< B' 8 ' 4283 542' *B . < 5' ' ! :5' 29' ' :98' <B252M'
; 28' < B:+28' 3B:<' 25' <= +:8:<=2P' @2' E29A' 4 B2' ?90' +'
8&283' 3B:9E4' 3 42 ; 253' 25J J4' 4 58' .2332' B20'
; '@(- '+0' . ' B54' + +25 253' 428' 44<:9 ++28' 42'
B: 20' 2' 3RB 5' E29J 4' 82' EB2' "' 8:5' 4283 50' !'
? ' (# 'E0' 'LL 6' B' ; ' ; +=29B' 2A3B :B4 K
5 B2' 2+ '283' BB E2' 3 +2 ; 253
-' 'S 6 8' : ; ; 2' 8' + ' 4283 542' E: 3' 3 +2*
; 253' 33 .=2' + 'E .3: B2' "' 828 ; 2 ; GB280' ! 0' +0' "%
-' (! ' '23' +2' 89 A2' -
' Q *3 *+ *8 ; &/0' 8' ' :.3B 52' ?9
33B G92' 3:93' "' + ' 3 + 340' 23' 52' + 882' B 25' 9' + GB2'
BG 3B2' '<2 52' 2 G5 3M 293* +' <B:<:84' 8:5' 8R834 ; 2'
B44 J4' 42<9 8' 4 58' + ' =4:4 2420' ? 2' ; +2' E: A'
.B 4B253' ?9& +' 53B:49 8 3 +2' 3 + 8 ; 80' B25E2B8 3 + '
2B4 5.2' 42' + ' .=932' 42' G: ; ; 20' ?9& +' 443B9 8 3'
+28' :542 ; 2538' 42' + ' B2+ J :5' .=B4 25520' 9
" ' " 0' 5:32' ' ; +=29B2982 ; 253' +2' 3 + 8 ; 2' 43 93'
EB 0' @2' 52' E:94B 8' < 8' 4&952' E4B 34' 8' .B92++20' "'
+ 'K A 7 ' "' 82<3' "C 7
-' (! '
'Q *3 *+ *8 /0' ' 'LL 6' 2+9 '?9 '.B: 3'
9' 3 + 8 ; 2' ' ' 29' 283' + GB20' .: ; ; 2' +28' \3 + 8328'
; 4 ; 2' 4: E253' E:92B0' <:9B?9: ' 29' 52' <:9B@ *
3* +' < 8' .: ; ; 95 ?42B' "' G: ; ; 2' 95' <25' 42' .2332'
+ G2B34 ' 9 ' + ' # - (' " '0#7 ' "N' LL 6' ?" ; '
5' 28<B 3' =3 + 832' R834 ; 2' 3 + 838
' ?' -
0' B ' Q3 *3 * *34U0' 8 0[+' LL 6' 5:= +52 ; 253'
428' .=:828' 3 +280' 42' .2' ?9' 283' B4J+4' < B' +2' 4283 5'
! 8' +' H3 ; '8:5J2I' < 882' 4 58' ; : ; ' E2.' 93:B +4'
:9B' 44+2' ; B: B' 42' + ' 3 + 340' 'O / ' 0' '
! 8' .: ; ; 2' +' 2830' 82 J529B0' 42' + ' =3 + 34' $92'
JB233B' 8: 3' ; 4+42' "' + ' 4+ . 340' ; ' O! 'E0' N'
+' 93' 25.:B2' ?9& +' H +2A 54B2I' 82' 3B29E2' " '3:98'
5:8' < 54JRB ?928P' 23' +' 82 ; G+2' < B' 952' 28<42242'
3 + 34' J+:B 2982' " .2' .. ; ?94B 53' ?9& 9 '<B 5.2'
52' <9 882' B2.2E: B' 42' +:9 5J28J9& +' 52' +28' < B3 J20'
' +!7 ' "' D!7# ' $28' <4.=48' 428' 93B280' < B'
952' 3 + 34' 54E 3 G+20' 8:53' 42E2598' E:8' <B:<B28'
<4.=480' : : ' WB' (- " ' 6DWW25V0< ' ""

_ 93* + 2A.982B +28 'J B2 ; 25 42 8:5 .:2 B 89B +
3 + 34 42 B2J2 5 88 # 7 - R # & 4:J ; 2
42 + <B44283 5 3 :5 + 8:+92 23 42 + 3 32 ?9
8 ; G+2 9@:9B4&=9 . B .3.B 82B +2 ; G: ; '3 5 8 ; 20
43 3 :< 5 :5 42 3:932 & 53+?9+340 $?* , C
?92+?92 .G:82 @983 2 .29M ?9 .B: 253 952 3 K
+ 3R G + ?92++2 B 25 52 <293 82 8:983B B20 .&283 .2332
89 32 .:53 592++2 42 ; +G29B8 ?9 <:9B89 E +
; 8:5 42 39 B3 <254 53 <+98 42 3B: 8 .2538 5*
5G280 ; = , , 38 >2 ; 2 + EB2 G ; 4283 5420
23 @2 ; 2 @23320 + 3432 + <B2 ; 2B20 4 58 & G+ ; 2 42
+ 3 32 ?9 5:98 .:549 3 3:980 + 8 ?#/ -
B :G3 3CN 2332 :3 + 32 5&283 93B2 ?92 E:98*
B54 ; 20 9 0 C - " +90 " 2E 53 29
. .=2 4 58 8 3 + 3R :3B2 829+2 8. 25.2 283 5:3B2
G9 ; # 320 ! # ! 0 58 + <G +:8:*
<G 2 ; :42B520 + 542288 32 ?9 B289+32 42 + 5 39B2
428 .G:828 E2. +2 ; :542 . : ; ; 25.2 952 J92BB2
?9 4: 3 +5 B E2. +2 ; :5420 23 < 8 E 53 .2 2 42
&G: ; ; 2 .253B2 + 5 39B20 42 &28<B 3 .:53B2 +
; 3 2B20 42 + + G2B34 .:53B2+ 3 + 320 6 -)
#!" " & 7 - 5 # * 7 @+ 6 B.:583 5.28 ; +*
G29B29828 $92 + 3 + 32 428 <+98 <B288 538 ; +K
G29B8 2 ; & 9B 3 <9 B449 B2 & 89 EB2428 E:+29B80
8D" 50 N >2 5& ; <932 + ; :B3 49 E2B*
3929A + 8 23+ .:54 ; 5 3 :5 42 + ; ++2 253 4B2
428 BE25 ?9& 9A .B 8 4&952 <:<9+ .2 5 3 ?920
G + B J2 ?9&293 +2 . < 3:9+ E 4 42 8 J5 +2B 8:5
9A M4+20 G + 3 + 32 428 . B.:583 5.280 9 . !
A A / + C A " D 7 ! - 283 428
3 + 348 ?9 5:98 253B +5253 ; +JB2 5:980 ; ! !
K 0 NC >2 52 8 80 ; :5 .G2B ; 3B20 < B ?92++2
3 + 32 @2& 5& B2<9 ?92 42<9 8 429A @:9B8 E:3B2
+233B2 49 7 :.3:GB20 5& !8 + 4 ! #
5: CC
- (! 3 3 42 3 +
$ Q *3 *4 *\&/0 K $9 B4E4+2 .2 ?92
+28 4283 58 :93 :B4:554 2 3B2< 24 3 4 ?920 +2 3B2*
< 24 89B +2?92+ 23 3 <+ .22 + <@3G 2 G 2+<G28
: ; ; 2 29A @2 89 8 <B:<G4320 23 ; :5 G: 8 3 4 ?92
B2 <+98 42 GB9 3 ?92 +2 3B4< 24 42 <G ?920
' 7 / -. A 28 5. 258 42*
; 544B253* +8 @ ; 8 G 9J9B2 4 58 ?92++2 .:5*
3B22 + E 3 B2?9 +2 @:9B0 89B ?92+ :G252 B2<:8 3
&: 82 9 3 4 ?92 ?9 +29B 55:5. 3 952 E .3: B2
:9 952 42 32^ $ " 50 " LL 52
8&2 ; <+: 2 ?92 4 58 +2 83R+2 2 2E2
- # 0 AEB 8 2++2 93 5:52 235:83B2 ! 2+58 520
3 &O E+8+++2 ! 53:50 3 4 B 2 =2B: 520 O FJJ
- ! 3 *, , 4283 5 QE:R
@ 23 * 4 B2
0 h G j 3 * ' 5 0 J ! *3&/0 " ;
$9 3 J92 B E +0 2A2B. :2 3 J 53 $92+*
?928 55228 E 53 8 ; :B30 + E 3 B25:5.2 G +
8:. 2320 ?9 5&23 3 <+98 ?92 3 J 532 <:9B +9 0
.: : . 0 - D #-!7 LL $9 42 ; 542
952 33253 :5 <25 G+2 2.39B20 23942 G3 J 532
B 2A3258 :50 ; <:B3950 2559R29A :5E2BK
8 3 :5 3 J 532 8.:9B8 3 J 538 283 95 G: ; ; 2
3 J 53 5 G28: 5 3 J 530 95 428 B 9B 29A 2
8:B3 B 42 ; : * ; 2 ; 2 23 42 E: B 4& 93B28 . 29A0 " !
? 7 / A
- ? 5 B2 ; B?92B D?92 &:B3=:JB <=2 4 83 5K
J92 & 4@2.3 49 < B3 . <2 , G 25
?92 .2 8: 3 +2 ; G ; 2 ; :3
Q *3 *JG&/0 LL 253 ; 253 4:9+:9K
B29A E2. 4 .9+32 4& J B0 ?92 . 982 95 3B E + 2A*
.288 :9 3B:< <B:+:5J2 3B2 2A.242 42 3 J92 !
: 0 <B25:58 = +2 52 <BG8 3 53 42 3 J9280
5 0 8 + 5&283 <: 53 4& B3 8 5 ?9 5& 3 B2.:9B8
G .23 55:.253 B3 .2 H.= 532BI0 23 + <+9R +RJGB2
.= 58:5 +9 3 <B28?92 :9G+ 2B 3:9328 828 3 J9280
- * 3 A 0 D6 < B3 4 + 0 4 58 !
: ; ; 2 42 _3 J920 G: ; ; 2 . < G+2 42 89<K
<:B32B 95 3B E + <R5 G+2 LL =2E + 42 3 J920 .2+9
?9&:5 <<+ ?92 9A <+98 B9428 3B E 9A LL# G 3 42
3 J920 .2+9 ?9&:5 <:B32 <:9B E ?92B G 828 :..9K
< 3 :58 :B4 5 B28 + : ; G2B 42 3 J920 52 <:9E: B
82 8:9325 B 89B 828 @ ; G28 3 . 982 4&952 2A.288 E2
3 J92 28 54 258 252G 35R8 23 .= BJ28 42 E EB280
?9&:5 ; 88 . ; 3 G & 583 53 : + +8 3: ; G 253 42
3 J920 89 E 253 .2332 3B:9<2 G BG B20 $
" E50 3 J92 49 .G2E90 42
E: 39B20 .2++2 ?92 . 982 +2 ; :9E2 ; 253 49 .=2E +0
+ 82.:9882 42 + E: 39B2 LL B E + <45 G+2 3 K
J9280 <2 5280 ; 9A0 @& ; 8 3:93 <:9B +29B . 9820
B34520 5 0 5 ::29B ?9&:53 2549B: +
3 J92 23 +28 580 ' 6 0 3 5 82 3 952 K
3 J92 428 4R .28 42 E:3B2 G 5?923 H42 + . : ; ; 9K
5 :5I0 ?5 - ! " 5 + E: 3 89<<:332B +
3 J92 2G83 5R2 :9B + ?92++2 :5 8253 3B:< ?9&2++2
5&R3 3<: 53 5420 9 @(& 0 L 2B ; 2 42
; B 52 2 3 49 3B E + 428 :B ; 38 ?9 8253 =:B8

49 @U J520 2 ; <+:R48 9A 3B E 9A 49 <:B3 ++2B G
3 J92
? *8
7 c Q *3 *J=20 J=G2/0 " " :
$9 283 25 <B: 2 G 42 + 3 J92 :98 ; 2 82 ; G+2M
3:98 429A <3 J R8 49 E:R J2P 2<:82M*E:980 982M 49
<29 ?92 5:98 E:580 O ' ,* 2 E *
.: ; 32 42 9B25520 E2. 95 <23 3 5: ; GB2 42 3B:9<28
3 J9R280 5&R3 3 < 8 25 43 3 42 +28 BBR32B H+28 +*
+2 ; 548I0 O * + , 3 J9R8 42 . BK
5 J2 23 42 8 5J 25 EBG80 9 ? E0 LL 82 4 3
4&:BJ 528 9A?92+8 3B:< 4&2A2B. .2 . 982 42 + K
3 J92 29S6 3 J948 < B + +2.39B2 >2 ; 2 8258 .2
8: B + <: 3B 52 95 <29 3 J9420 9 ,
* , 0 < NC 0 4 58 " LL c J 3 J94
< B 428 ; <:B395 348 54:. +2 G 3:5 @:9J0 3 J94 42
3 +: 0 & E0 F 3 H+28 4 29AI 3 J948 4&25*
.2580 @ +:9A 4&95 GB2 G: ; ; J20 2G48 8:98 5:3B2
; J2 58 3:952BB2 23 8 58 <: ; <2 2BB 53 4 58
&95 E2B80 C 4 ! :58 29B NN YF 2B ; 2 4& B38
G+2 9 3 J940 3 G+2 9 ?9 0 G :B.2 4&43B2 5233:R40
<2B49 ?92+?92 .G:82 42 828 42 ; *32 5328 LL ! *
5 4B2 3 J9420 ; 5 4B2 4&95 B3 832 ?9 :G3 253
E2. G2 9.:9< 42 3B E + 428 2 238 ?9&:5 <:9BB 3
:G325 BG ; : 54B28 B 8 L> :9+29B 3 J9420 .:9+29B
?9 0 G :B.2 4&43B2 B23:925420 <2B49 8 B +.=24B
(: A 3 J9420 E: A ?9 <2B49 8 B 3.=29B <:9B
+2 .= 530 23 ?9 52 82 <B:49 3 ?9& E2. 2 :B3
Q *3 *J=4/0 @2 3 J9 80 5:98 3 *
J9 :580 E:98 3 J9 2MP ?92 @2 3 J920 ?92 5:98
3 J9 :580 ?92 E:98 3 ' 2M0 . LL 982B
42 + 3 J92 3 J92B 95 .=2E + 3 J92B &25*
52 ; 28 :9EB J28 E 253 432 .=2E48 8 58 K
3 J92B +28 89@2380 # 830 9 0 28 G:9BB2 9A
8:5 .:9B J2 3 J94 + ; 50 9 / (&
K # F J 5 4 3 ?9&952 <: J542 42 2GB43 298
:53 892B +28 33: ; 58 23 3 J9253 +2 < 2 ; < B20
? + # 7 J 32B 9B:<2 <:9B 5&43B2
< 8 : 8+ 0 82B 3 +2 ; 43 2B 4&95 53B J 53 ?9 3 K
J92 + B25: ; ; 42 ; @:9B0 < B.2 ?9& + 5& < 8 +2
2B44 3 42 E EB2 89B 952 4 ; 5 83B 3 :5 G 25 *
8 5320 / ?O)# 1! (! - 3 E0 < N0 NN d 9K
82B 95 .2B3 5 ; + 82 .: ; < B4 G + 3 '2 2332
2.B 39B2 3 J92 +28 R29A 2 +:5J 4 8.:9B8 +9
3 J94 + E: A 2 <B: 28829B 3 J94 & 33253 :5
42 828 4 329B8 2332 43942 3 J92 &28<B 3 LL G*
8:+9 ; 253 &283 952 43942 ?9 3 J92 NN Yd K
3 J92B 95 .= ; <0 +9 B2 <B:49 B2 952 ; 4 ; 2
B4.:+32 <+98 8:9E253 ?9& =2 94B 3 LL 2B ; 2 4&=:B*
3 .9+39B4 3 J 2B 95 BGB20 +9 + 882B 3B:< 42
B9 38 :9 3B:< 42 G: 8 LL 2B ; 2 42 G:9+ 5J2B 2 K
3 J92B +28 +2E 580 +28 <B254B2 3B:< <23 38 G <B:K
<:B3 :50 42 + < 32 4 58 + ?92++2 :5 +28 3 253B2B
<:9B+ B2 +2E2B LL ; <:B3952B 58 4:52 ; 28
G:5348 E:98 23 J9253 <293 '43B2^ 4B4X 0 "
++2 ; & 3 J94 42 .2 5: ; 2552 ; 0 50 D# E0
29B <B: ; <32 82BE 3942 3 J94 G4B20 5U 3G E0
" 2 8.2<3B20 .23 2 ; < B2 3 J9253 8:9E253 +29B
3B 832 <:8828829B0 " K & 50 C >2 5&:82 3 J92B
! +2 492 4& J9 ++:5 44 .2332 B2 < B3 .9+ 4B2P
+ 283 882M :..9<4 42 .2++28 49 :B40 9 +
* ? # / B @9 5 CC @ 58 +2 83R+2 432E40 K
3 J92B +2 . 2+ 42 828 E.29A0 42 828 <B 4B280 4B2882B
9 . 2+ 428 42 ; 5428 5.288 5328 H 2@0 3 J92
+2 . 2+ < B 428 E:29A 89<2B +980 &! - E0 8
2 +80 @2 &:G3 58 25 3 J9 53 +2 . 2+ 42 E:29A0
9: +2 0 0 3 3 @2 ; &25 E 8 <+29B.B +29B8 *
E29B8 ; 29B3B 4B28 58 <+98 +28 G3 J92B Q 593 +28
<B 4B280 O& "# E0 C 58 _3 J92B +2 . 2+ < B
428 E: 9 593 +280 1 # O#A# L@N *
; + 4B2 ; 253 3 J92B 952 8 + 420 + B23:9 ; 2B
+:5J32 ; <8 LL 3 J92B 32BB20 + B23:9B52B 8:9E253
>& 4 58 ; :5 E: 8 5 J2 428 . ; B 428 ?9 3 K
J9253 95 32BB 5 5JB 3 E2. ?9 3B2 G:29 80 9
C K # " C 7 ! - LL . 52 4 30 25 95 8258
5 +:J940 3 J92B + ; 2B 3 + B ; 2 593 +2 3 K
J92 E 52 ; 253 952 ; 2B ; ; :G +20 & / 0
2B ; 2 4& B38 3 J92B 95 : EB J20 +2 B23:9K
.=2B E2. 95 8: 5 3B:< ; 593 29A 53 =BR8:8*
3: ; 2 3 J92 8:5 83R+2 G + ; 5 4B2 4& 8:.B 320
H - 5 0 E0 LL 3 J92B + .:9+29B0
R <:B32B G 4 E2B828 B2<B 828 +2 < 5.2 90 42 8:B32
?92 +2 .2 :B 8 <2B4 8 32G29B 23 +28 3:58 +:9B
B 5.G 82+ LL N - 2 4:552B0 4<B:9E2B 42 +
3 J92 $9: ?92 +2 B: 52 43 < 8 25 43 3 42 G*
3 J92B0 ! $ J " C 2B3 5 :9 <:9B*
89 E 3 G .:9<8 42 < 2BB2 95 8 J20 2 8 J2 +9
4 3 B2<: 8 .23 4.9P 9 3 J928 882M <:9B J *
J52B 4 E 53 J20 A 0 +98 +28
3B:9<28 G3 J9 2530 <+98 + 82 ; G+ 3 ?9&2++28 B24:9*
G+ 88253 42 E J929B0 @ / " ' 7# LLC0 B
'3258 :5 2 89<<:B3 3 J92 G2 9.:9< 52<:93B2
? 5 G3 J9 3 B: ; < 3 LL a2 4 3 4&95 E 9882 9 ?9

E :+2 ; ; 253 3:9B ; 2534 < B +28 + ; 280 42 JB 5480
; :9E2 ; 2538 42 3 5J J2 :9 42 B:9+ 80 230 < B .2332
B 8:50 4<B:9E20 4 58 828 + 8:58 23 4 58 8 ; G*
39B20 42 .2B3 58 448:B4B28 ?9 <29E253 E: B 42 G*
.G29828.:584?925.28 <:9B +29B 8:+ 4 3R0 + LL /
4 3*?92D & BJ253 3 J920D ?9 54D + 283 .:583 ; *
; 253 <+ .4 G 53'43 +98 5:3B2 BJ253 3 J920
23 <+98 + 5:98 B <<:B320 , , 0 V"
F 2 3 J92B0 / 288253 B 42 + 3 J92 >2
; 2 89 8 3 J94 G + 2G 882 ! 28 R2 A .: ; ; 25.283
G 82 3 J92B >2 ; 2 3 J92B 8 G 32 3B .2B +2 .:9B8
28 :93B J28 .B92+8 ?9& + ; 2 3 3: +28 @:9B80
=, 5 4 3 988 82 3 J92B 42 5 82 K
3 J92 ; 4 ; 2 49 <+ 8 B
B:E25^0 23 28< J5 P 3 + 3 *
. B2 / 49 + 3 5 3 J B20 4&95 B 4 . + :9
: , + 80 * + 882B/0 23 95 89 A
* , $ " $?" 7
<B482532B <: 882B
Q *3BGP B 82 + 2 P 95 *3BG*M 58 < 42/0
0 ; 8 .:5 G8 42 .G:828 5 3B 8*42 < *
< 2B80 42 EB28 2 B: +<=:582 4 8 30 G <B:<:8 49
3B 8 428 .2B.+28 ?9& E 3 ; J 548 & 83B:5: ; 2 5*
. 25520 ?920 8& + E 3 434 9 .:582 + 42 29 ?9 54
+ 3 +2 ; :5420 + +9 G9B 3 4:554 42 G:58 .:582 +80
5& # = , 0 , 3C : 3 VC*C B
?92+ G 8 B40 .=2E + 2B0 <:B32M*E:98 4G52 .2 3B 8 42
+233B28^ 7 9 % , A " ; 0
B 2A3258 :50 ; 8 42 .G:828 83 4 298280
< B:+28 :9 4.B 38 58 3 53 42 .:53B24 38 23 4& 532B*
+:.93: B280 3 42 3B 8 23 42 JB ; : B28g B E ++:58
- 1 382 .= BJ2B 28<B 3 4&95 34*
54GB29A G93 5 2 3:98 +28 E 25A 3B 8 ?9 3B +52 3
4 58+28 EB280 - * E0 8 >2 E: 80 4 58 +2 K
3B 8 428 4.B 38 ?9& + 5:98 4:5520 2 ?9&43 +2 25 3:98
+ 29A 8 <44 532 <2B8:5520 5 1 $92 @2 <+ 58
; 2 42 + B2 3:93 .2 B 3B 8 42 G J 32++28 8 E
"F" 2 B4<+ ?92 <: 530 @2 .:55 8 3:5 3B 80 S
" : * Q4 58 +28 * , / G :B8?92
@2 .:58 44B2 3:98 .28 45:B ; 28 3B 8 ?92 @& .: ; <:*
8480 @289 83253442 ; 2 . .G2B4288: 0 23@242 ; 29B2
3:93 G:5329A0 = O *) ,*) 7 @9 ++ N7
+ .:9 ; 9+2 .253 3BG8 4 58 8 ; 4 ; : B20
>' ; 5 G8:+9 ; 253 . 3B 80 +2 83R+2 .:5 98 23
58 < 42 :5 83R+2 283 .+ B 23 E J:9B29AP + 4 3
G2 9.:9< 25 <29 42 ; :38P .&283 +2 JB 54 2552 ;
49 _3B 80 = = * @9 5 CC >2 4432832
+2 = 3B 8 23 +2 <23 30 23 3:93 .2 ?92 @2 E: 8 +29B8
283 <23 3 23 _3B 80 5 = # = 1 " EB CN7
AET 8 3 283: 3 .2+ H428 B4528 ?9 @2*
3 253 E 5 23 + 3I 3B48*G 25 30 23 +2 B2J B4 +2B:R0
23 .:9832B253 .28 ; B2+ ?928 23 3B 8 G2 9.:9<
4& BJ2530 ' .G 82
o I F $9& +8 <B:9E253 25 <B2 ; 2B + 29 ?92 +28
<:83B28 :53 283 + +2 ?9 B28 ; 2 23 G2 9.:9< 42
; 2598 3B 8 23 G980 $:98 < B+2*
B2M 42 G 83 52 42 .=2E + 23 42 32+M 3B 80 3 53
.: ; ; 2 E:98 E:9+4B2M0 ; +8 @2 E:98 4 8 G .2B328 ?92
RB98 2834 :.. 8 42 .2832 ; 252 ; 5 23 5:5 4& 9*
3B20 ! 0 & 7 V7 28 5.2+:38 49 .0 428
5 4 80428 #9:58 42 :B42 9A 23 34 3B 8 42 + *
EB28 G ?9:R 25 5.2 8& ; 9820 @2 G&25 .:J5: 88: 8
< 8 829+2 ; 253 +2 5: ; 0 S3
& <B48 ! 45 J20 <<B:9E4 < B 2M0
283 <:9B 49 + 3 5 ' * * , 42
, B. 2332 =' :3=4820 5&43 53 < 8 <<9R42
< B 428 :B ; 28 4 58 &G 83:B ?920 B2832 4:9329820
4& 93 53 ?9&:5 95 2A2 ; <+2 42 4.B 3
3 * .: ; <+ ?92 + ?9283 :5
Q *3B *M 2/0 * + 4:554 4 58
+2 ; :R25 GJ2 G428 < 422842 E2B80 8 58 B 8:50 ; *
<G J:9B ?928
- # 0 A ; 6 8 52 JB 53 3B9 20 952 +:9 420
52 83B 8 20 952 G: B420 67
f -
2*3B *8 '0 9 5 &:..9<2B G 428
5+ 82B 28
- # O I 8 3B 882B0 !
- J452E 82 8& ..:93B2B0
8& 9G+2B
3 Q *3B *82*B 2/0 2.92 + 42
3B 8 23 4& 593 + 348P :9EB J2 42 .49 ?9 3B 882P
.3 :5 42 3B 882B
- # S 6 8 2 ?9:R 4:520 4 3*++0 2BE253 3 53
42 G33 882BR28 42< < 2B8 8 O - 5 0 +V&
3 Q+ *3B *829B/0 R5:5R ; 2 42
3B 88 2B
- # O I 8 3B 8829B0 !
3 Q *3 8 4/ 2+9 ?9 G3B 882
- ' O I 8 3B 88 2B0 7
Q G*39*4*B&/0 2B ; 2 4& 53 ?9 34
53=:98 8.2 ?9 82 . :R +3 58< B40 23 55:5< 3+28
.G:828 939B28

!

' 3' 7 # ' N3B2 8 8' 4&95' 44+B2 <B:*
',<=)3 ?92 0 0' b
3' ! ' Q *3 * *8 ; 6/0 ' ' LL W # G 3942 0 42
39 3R' : + 3 99' 4 G+ 882 ; 253 5:9E2 9 ?9 ' 52 82B '
<: 53 \' + ' .= BJ2 49 <9G+ .0 ; 8 G325 ' h2A3 < *
:5' 49 39 8 ; 20 =# 9 330 + ' 7' & ! " 'D!7)'
b ! - ' ' 39 8 ; 20 39 320 T3259 ' ' 2 ; <+:R28 ?923*
?92 : 8< B+28 + 45 832 '<:9B 4' J52<'&0'4+ ; 2= .2
V ' #5 ' ')):
+ ' Q *39* *34@0 ' ' 6 :33 82 ..: ; < *
J5 '2 4&952 G:552 ; 5 :5' 42 8: * ; N ; 20 ?9 ' 3
<B254B2 B 4 .9+2 ; 25 ' B0 +28 ; 5 2B28 23 +28 <B4*
3.93 :58 "9' ; 4B 32 &25 E: 3*:5' < 8 8 58 .2882
$9 ' @98?9&= ?9 B 532 58 J B4253 B E2538 3
8:53 +28 E 34B 58 42 + 39 34^ ' C (& - ' 0
" ' ' 39 3R 4N4: ; 53 J2 49 44 93 42 :29B0 3B*
' C B ' %"C 5 Jc5 'B +0 + ' =39 32 428 ; 98 .258
283 42 .B: B2 52 B 25 42E: B = +29B <: 32P 23 Bc3BR0
E2.' 42 &28 +30 ' 29 .23328:33 82 9 89<B2 ; 2 42JB40
? ' C ' 3' N ' 82 4 3 988 ' 49 J25B2 42
39 34 ?92 4:55253 ?92+?92 : 8 +28 89 ..28 9<B_8
428 2 ; ; 28 ' 28 = : ; ; 28 ?9 ' :53 29 4&4 .+ 3:38
89 : . '8 9<BG8 428 2 ; ; 280 + :B8?9& +8 :53 89 82 <B2K
82BE2B 42 + ' 39 32 ' ' CA ' " ' ' ' <'
V%F0 4 58 - 'H[B:<:8 :9 5328 ; <2B3 K
5253^' ' ' 4 3 952 JB 542 39 32' 5 E:+9<3929A
42 : ; 2 82 ' 8 53 B <<:B32B 49 G 5' 4 58 952
.= 82 42 ; 54 3 9 8*@2 88 8^ .&283 2 <29 <BG8
. : ; ; 2 .2+9 ' ?9 0 43 53 ' + ' .= 8820 42 ; 54 3 =
828 J258 8& + E + 49 <+ 8 B ' .2 8:53 428 39 328
428 JB 548 ?9& + 283 G:5' 42 B2 ; B?92B0 '
4 58 (' " ' ,#"5!7B ' 7 ' 28 B 29B8 8:53
<: !'+9 P + 5&R '8:B32 42 39 328 ?90:5'52 +9 '< 8820
+ ' ' 0 ' 2B ; 2 4& + 25 8328 ' :+ 2 ' LL ' 234'
2 ; <+:R2 @ 4 8 25 .2 8258 0 .: ; ; 2 :5'+2 E: 3 < B .23
2A2 ; <+2 = 83:B+?92 ' = + <<2 +2 2+B2<:54 3 ' :K
5 .2 H IP $92(:3B2 3B 8 'JB 542 39 32 8 .=2
?92 5:9852 8: ; ; 28 8:9 ; 8 =<2B8:552<:9B+232 ; *
<:B2+0 ' C (7# 'FN
- ' # 0 A3E6 8 ' $92 B2 428 <2B28 825 329B8 0 82
D : ; G 3 83 .253B2 + ' 39 32 H +2 0 49 <92<+20 :
@3 0 0 "C05 # ! ' 5 42 ; 54 '6 .2+9 '>2= 5
<:9B?9:' + 8 '283:3 98 ' + 884 2=2: B 25 + ' B E 2B2P
+2 ?92+0 <+2 3 42 39 32 :9 42 ; + 4 2 ?9& + E: 30
B28<:54 3 ?92 +M E: 253 3 JB 53 <2.= 4 42 25
3 B2B = :B80 533 ' 77
- ! ' B:E25.0 7 3 28< J5 ' 7 " "3
3 + ' (A7 "3 49 + 3 5 7 ' 42 77 ' 8:3
E:R' '23 G
%' #' Q N/0 ' ' 5 4285:5 8 E9+J B28 49 = 3B2
- ' ' A3 6 8 ' 2B32 9 2@ 8 2 + G: 8 88 82 8:98
95 :0 D # ' ' "F
- ' (! *e ++:50 7G ' Q3 / - 5 73 <B:E25^'
7 P 49 + 3 5 /7 3 JB2.0 5 G^ QE:R' G
%' 'D$M@ ; "'@#"E'5 ' ' :R'
' ' D$M@ ; "'E' ' ' "'+"' #"' +0'-/"'
0&0-'#"' 6-('#"' 20 ' '"%' "+ +0/26"('6' ! /' ;0%*/' *!'
("%%&"+"/%' &-#(' "/' $0-(2"0!' "%' +0/-#(' 0!' + *8"/'
#! ! /"' 4*-7/#"' "/' 2*'#"5'-&' ('"%' 6'&0. "' '"%' 6'#4*/7"''
&"' 4"/%' #!' /0.-'"'
- ' 3 (! ' *' + ' 7 # ' &0. "%%"' 26-$$*/' ' &0. "''
&0' .0-(("&&"P #!' 6*&&' Q #' $0 ! ; "'%
j' ' Q 4*G4B*34/0 : ' : ' 2B ; 2 42 ; K
B 52 ' 233:R2B E2.' +2 9G2B3
3' ' Q N*G B*32 B/0 ' ' 2B ; 2 42
; B 52 ' 2+9 ' ?9 ' 9G2B32
'Q 2*G:9BP +2 /' 52 82 <B:5:5.2 @ ; 8'
,95 4*G:9B 432549P = +230 # ' <' 80+2 'B2*
; B?92 988 ' <:9B +2 AE9 ' 8 4 :+2P 9 <+9B 2+0 &8
52 82 + 2 < 8 ' 428 N*G:9B 2325498P .2<254 53 ?92+*
?928*958 + ' + 253 ' 428 N*G:9B*M0 4325498/0 ' '
' ' $9 B3 2B 4&952 +2 8 394 25 42=:B8 42 8:5
,25.2 532 ' :93 283 25 29 @98?92 89B +2 'G:B48 42 + '
B E 4B2 4& 82P 5:98 <:9E:58 E: B 42 5:8 9G:9BJ8
+ ' 9 ; 42 428 E ++ J28 ?9& +8 H+28 2552 ; 8I 5:98 GB4*
+2530 .*- ' + 'C" ' # ' E ++2 23 +28 9G:9BJ80 3:93
+2 ; :542 ' >& 9B '<:9B .:5 42538 + 'E 2 23 +28 =9*
G:9BJ80 !2 ('0& ' # # 'S' ' LL 882 ; G+2B
+ ' E ++2 23 +28 9G:9BJ80 2A. 32B 95 JB 54 .:5 .:9B8
,42 ; :542 '[Q J ' 2 42=:B8' + H+ 88 RI 5&R 93 H '+'
.:9BI @ ; 8 ?92 428 9G:9BJ80 : ' 0 ^'
' ' 58 .2B3 528 JB 5428 E +280 ?9 B3 2B ?9 '<B *
; 3 E2 ; 253 43 3 95 428 9G:9BJ8 ' ' B 80 +2 9K
G:9BJ 53* 53: 520 +2 9G BJ 53* 2B ; 5'
253B ' H ' B 8I < B +2 9G:9BJ 5 * ! B:2 9 23
.B93 4332 4 58 +2 4&!('E + 5 E ++ J2 42 + e 283<= + 20
' 1 - " " ' ' 28 9G:9BJ8 9@:9B4&=9 ' 8'
<2 ; <29A 23 8 'JB 5480 $92 + ' ; 5 42 + '< A3 253
:9E2B3825 3:5832 ; <80 &952 ; ; 2582 . 32 89<2B<28
E259280 ' 5:8 ' 8 ' 4:B48 82 <2B4253 4 58 +28
9280 9253 42 +:5J8 = ; 2 9A 42 B2 ; < B38 253:9*
B28 ' B 95 :884 <B: :54 42 B 8 8 < B480 '
25B ' ' ' 93B2 : 8 ' B 80 ?9 54 :5 4 8 3 +2
' ' ' ' J

9G:?BJ0 G2+ ' E:9+ 3 4 B2 +2 9G:9BJ 53* 2B ' '
; 5 2 9@ :9B4&=9 ' +2 9G:9BJ 53* 2B ; 5 ,82
5: ; ; 2 ?92+?92 : 8 +2 5:G+2 9G:9BJ0 < B.2 ?92
G2 9.:9< 42 ; + 28 << B325 53 ' + ' 5:G+2882 R
:53 428 =232+8 ' LL 58 ! ; 2 42 4E J540 +2 9G:9BJ
283 :B4 5 B2 ; 253 +2 9G:9BJ 53*> .?9280 :4 82
B23 B 253 +28 J258 4 58 + ' 44E:3 :5 [' +28 @ 584*
5 83280 23. ' LL ' ' <:<9+ 3 :5 428 9G:9BJ8 42 K
B 8 ' :9+2E2B +28 9G:9BJ8
- ' # 0 A 6 8 ' '3:M .298 ?9 '@983 .2 23 @9B 4 .*
3 :5' :53 424258*+ ' E ++2 23 424298 +28 :BG:9BJ8 42
B 80 = / ' ' ' ' ' B2E 53 25 :9BG:9B:'4& 8+2
H ' :510 ' 1 ' ' * ' e '82B 20 3' 5 0 <' " %'
'S 6 8 ' $92 +28 ; 8:58 428 =:B8G:B.8 8: 253 G *
39280 ' 1 , ' LL AE6 8 ' 28 5J+: 8
E 5B253 +:J2B 8 9G:9BJ8 42 255280 '50
50 C ' B252M +28 .= ; <8 :9 +28 9+G:9BJ8 H.G: *
8 882M0 442 42MI0 ' "G ' ') & ' LL AE 6 8 ' 25K
4 53 ?92 5:98 5&25 8: ; ; 28 ?9& 9A 9G:9BJ8 H42
+ ' E 2 ++28820 ' 5 0 F ' 2 29 8& E 5.2 <29 '
<290 23 '428@ ' .:589 ; 2 +28 9AG:9BJ842 + ' .=B28*
3 25340 " ' F ' 28 425 328 .:9 9B253 23
:9BB J2B253 +28 <B2 ; 2B8 8:5 ' < 8 @98?928 9A
9+AG:9BJ8 42 : ; 20 $ ' < ' C ' 9G:9BJ8
8253 3:9328 +28 ; 8:58 =:B8 25.2 532 42 + ' E ++20
Q!- '< * * ' <' NNF0 4 58 ' 82
E 53 G29B32B .253B2 + ' E ++20 <B28?92 9A 9AG:9BJ8
42 &= E2B H ' 253B42 42 &= E2B>0 ' = ' 3' 0
<' " 'R B4 5 9A 9AG:9BJ8 E 9+3 .253 8:+8 9 B2*
@,42 ' " !
' ' . B40 1 , ' 1 , ' G:9BJ9 J'
,1 ' X ++:50 1 ' G 8*+ 3' ' 1 , , ' 42
' = :B80 23 1 , , ' G:9BJ ' 2332 43R ; :+:J 2 283
.2B3 52 <:9B 3:9328 +28 :B ; 28 :4 $ ' 82 3B:9E2 '
1 ' 1 * ' 1 , '23. ' ! 8 93* + 988 ' R
B 33 .=2B ,71 , ' ,1 , ' 1 i' ':5 .:5*
8 42B2 .28 32A3280 :5 E: 3 ?92 ,71 , ' 283 B2+ 3 *
E2 ; 253 B42253P 23 4 58 +2 G 8* 3 5 ; 4 ; 20 49 5J2
52 . 32 , ' 1 , '?92 4 58 952 < 422 42 P
8 58 4:932 :5 <253 .:5.2E: B ?92 428 1 , '
253 434 988 ' <<2+48 428 ,7 1 , ' 428 1 , '
,7 ' .2<254 530 3 53 ?9&:5 5& 9B '< 8 <<:B34 428
32A328 52 258 ?9 ' 4:55253 ,7 1 , ' + E 943 '
; 29A .B: B2 ?92 ,1 , ' 283 952 +32B 3 :5 42
1 , '<B:5:524 1 , 'Q+2 < B+2B E9+J B2 R 53
?92+?9B : 89<<B9 4 B/0 <9 8 5 +2 ; 253 <B 8 <:9B
,7 1 ,
%' 0+ 'Q 3*G:9*B 50 B 4*5&/0 6'
2B ; 2 <:<9+ B2 ' $9 ' << B3 2530 ?9 ' 'B <<:B3 9A
9G:9BJ8 :9 '828 = G 3 538 28 ; 5 4B28 9G:9*
B+25528 ' LL@ ' ' 2 4 3 428 = G 3 538 428 9G:9BJ8
42 B 8
' ' (! ' - ,1 ,
' Q NO\ B/0 ' ' 2B ; 2 42 <:538 23
.= 988428 ' 583B9 ; 253 <:9B .:9<2B +28 =2BG28 ?9 '
.B: 88253 4 58 28 . 5 9A
- ' D(! ' 2 ; 4 ; 2 ?92 ,
,H ' Q 4*\ B*44/0 5 ' ' 2B ; 2 42 <:538
23 .= 988428 ' :9<2B +28 G2BG28 4 58 2 9 E2. ' +2
9. B4
%' 'Q 4*84/0 ' ' B3=:JB <=2 ?92 ?92+*
?928 9329B8 89 E253 <:9B 98823 +
' Q 4*.= *@&/0 8 ' .3 :5 42 9.=2BP
3B E + 49 9.=29B ' 2 9.= J2 4&95 <B4
- ' # ' S 6 8 ' 3 E29. ' .2 42 ; :9BB: 3 23 42GE: 3
42 ; :9B2B 2BG J2 23 9. J2 9 4B: 3 428 4 38 . : ; *
<+ 5J5 580 59 ' * ,
I @' ' - ,
' Q 4*.=4*M:5/0 ' ' LL ' 2 ; <8 : +
&:5 9.=2 ' 5 283 EB ' ?920 <254 53 + ' 9.= 8:50
+ ' ; : 88:5 23 +28 E254 5J280 +8 J J5253 <:9B &:B*
4 5 B2 4& 882M G:5528 @:9 ; 2280 9 ' O '
<'7N' ' E2B3 882 ; 253 <B48 +2 9.= J2 'LL '<4*U
B 3 :5 ?9 ' :58 832 '.:9<2B +28 B4.:+328 E2. ' + ' 9A
'S 68 :9B + ' JB 542 G:54 5.2 42
: 5 2A?9 8 ?92 4:552 + ' +9M2 ; 2B2 25 <+98 29B8 23
4 E2B828 9.=28:580 a ' " ' JQD
' - ,
3' # 'Q 4*.= B/0 ' ; 2B ; 2 4&=:B3 :9+39B2 '
2 <2 '429A 3B 5.= 5380 J ; 2 4&95 +:5J ' ; 5.=2
- ' (! ' 4B E4 42 ,7 ' 8 '
' Q 4*.=&/0 ' ' 2 <B:49 3 49 2 9.= J2 '
' 9.=2 '434 G:552 ' LL '82 4 3 988 ' 49 32 ; <8 : +
:5 9.=2 ' ' 9.=2 283 <B:.= 52
- ' # ' SE 6 8 ' 42E 53 +2 4 3 @:9B 53 2BB2
.29A <B2M 8:53 9.=2M0 + ' 4 3 2 9.=2 320 23+28
:58 .= BB 480 ' , ' ' 0 4 58
' :R'
# 0 c ' Q 4*.=40 .=42/0 " ' " ' 5 <B4
9.=4' ' J ' 53 42 J254B 3 :58 9.=228 < B +2
32 ; <8' b &
' Q 4*.=42/0 ' ' 2 ?9&95 9.=29B <293
.:9<2B 42 : 5 < B @:9B :9 8 58 +2B 8 ' 9A ' D

' 6 ' A R6 8 ' 92G 42 42 <B2R0 :9 ' Q['
& ' LLAE 6 8 ' 5 <B2R .:5325 53 4:9M2 + 9+.R280
' (
*60 (! ' 7(&"
. 8? ,' Q 4*.=4/0 ' ' 6 :9<2B +28 : 580
+ ' ; : 88:" E2. ' + ' 9A ' 9.=2B =2BG2 ' ' 93
?92 +2 <B4 8:3 9.=4 42 ; 5 ' '< B + ' .B 532 42
.2 ; + H+2 ; + ; 4+4 9 G ; I :5 E:9+ 3 432B +2
G 250 :5 B25E2B82B 3 3:930 23 :5 2B 3 988 ' ; +
?92 .2+9 ' ?9 0 E:9+ 53 9.=2B & EB 20 2 ; <:B32B 3
+2 G:5 JB 5 E2:' 2+20 ' + ' ' N 'Q/ G8:*
+9 ; 253 ' 5 <:9BB 'G 25343 9.=2B ' LH 9.=2B +2
JB 54 <B40 B ; 2B 9A J +4B28 ' +2 E:98 3B:9E2B '
3B:< =29B29A0 8 ' :5 52 E:98 .:54 ; 52 ?9& 9K
.=2B +2 JB 54 <B40 ' H 'D ' 0 N ' LL J ' '
; :B30 +2 32 ; <8 9.=2 3:930 2+2 54 53 3 3:93'
&=: ; ; 2 42 e 32B+::' 5:98 4 B *3* + 8 'E 2 3 .2
?9& + ' 9.=4 49 3B:9<2 9 428 =9 ; ; 98^ ' " '
! 0 0 ! " ' - !75 '@7 ' " ' ' LL 5 95
8258 J9B4 ' 9.=2B +28 G980 +28 <B4@9J48 ' L 'R'
5 ' 2B ; 2 42 ; 54J2 ' 5 4 3 4&95 .=2E 4 ?9& + 9*
.G20 GB8?9&25 E 5J 53 952 428 @ ; G28 42 42E 530
+ +9 ' 3 44.B B2 95 42 ; *.2B.+2 ' &283 9 3B:3 ?9&:5
8& <2B?: 3 8 ' 95 .=2E + 9.=2 ' LL 2 4 3 988 ' 42
=: ; ; 2 4:53 + ' ; B.=2 8&2A4.932 25 442B E 53 +2
; 4 ; 2 ; :9E2 ; 253 ' ! B.=2B 25 9.= 53 ' LL ' + 82
4 3 42 + ' ; 5 2B2 42 3 882B ?9 0 25 E 5? 53 G2 9*
.:9< &:9EB J20 + 882 + '3B ; 2 <29 82BB42 23 B254
43: 2 54J +20 ; :+2 23 + .=2
- ' # ' S 6 8 ' + H+28 J92BB 2B8I 9.=253 23 G *
3253 ; :'E + 5 25288 B3 %:M 'A ; ' LLA 6 8 ' ' 2 58
H : 5I ?9 ' 3:98 283 82.= 2M0 <9 8?9& + 283 9.= 2M0
0 7 # ' ' LLA E6 8 ' 3 949 58 + ' =2B8 52
8& ' 283 +253 8P 58 ' .&:5 9?92 G+2M :9 32 ; <8 ?9& +
283 ; 9B M0 2B3 +28 < 28 49 . e +0 8 ' 25 ' 4298 @98
; 80 94 ' " '@ ' E ; 0 N ' LL AE 6 8 ' +.=2M +2
<B4 25 + ' 8 8:50 =2BG2 R B2E 254B ' <+98 4B920
' 0 C
- ' (! ' 7B '8 '
3' 'Q 4*.=4*B6/00 ' ' 5J+2 42 G: 8 ?9 0
<:9B +28 ; 9+238 42 .= BJ20 3 253 + 29 42 .B:9< +B2
' Q *.=4/0 ' ' LL ' 2B ; 2 B9B + ' 3*
32 5 554 42 42538 42 G: 80 42 .= '2 24340 ?9 '
82B3 'B 882 ; G+2B =2BG2 ' LL 32 9 <:9B B2 ; 92B 42
32 ; <8 25 32 ; <8 + ' < 32 49 . B3:5 4 8 + ' .9E2
' ' 2B ; 2 42 :B283 23 ' 8<422 42 <23 32 82B<2 25
:B ; 2 42 .B: 88 530 ?9 '82B3 ' B2 428 J:38
' ' :B5 4&95 : 82 90 +2 G22*'25 '* ' . 82 9A :9
< 58:5
- ' # ' S 6 8 ' 5 9?923 :9 B E2B\ ; ' 25 ^:5
42 82B<2 25 ; 5.=4 25 95 +:5J G 83:50 " '
(7 ' 9.=23M :9 G: J523M 428?92+8 .2+28 2 ; K
; 28 ; 88: 253 +28 B: 5280 5 '
' ' ; 593 '42 7B '8 ' P 3 + ' (!
3' ' Q 4*.=4* /0 ' ' 2B ; 2 4&=:B3 .9 *
35B2 ' 583B9 ; 253 <:9B .:9<2B +28 .4348 428 BG98328
?9 'G:B4253 +28 <+ 328*G 5428
' ' ; 593 '42 7B '8 '
' # ' Q 4*.=29B/0 8 ' ; ' 9EB 2B ?9 ' 9K
.=2 +28 : 580 +28 E: 528 ' $93 ?92 32 ; <8 <B480 +
E 53 428 9.=29B8 ?9 ' .:9<4B253 =2BG2 4&95 <B4
B2 ; <+ ' 42 +29B8 ?9 ' .:5E25 253 ' .28 42 ; : 82+28
H+28 G2 ++281P 2+28 ++4B253 25 .:B<8 4& B ; 22 44*
254B2 +29B <B40 23 ; B253 +28 9.=29B8 25 9 320
' + ' C ' "7 ' - ' ' 82<3 ' CN7 ' LL 5
:+:J520 8:+4 38 :9 < R8 58 B ; 48 ?9 ' .: ; G 33253
E2. ' 428 9A ' LL J ' $9& 8*39 > 3 <:9B ; :9B B0 N
5:G+2 2B4 39B2^0 ' = ' ' ?9 ' 4:52 <<2 58 ' 4 58
+ ' ; 4B2 5 39B20 3 ?92* 9.=29B E29J+20 ; 4
42 < 39B20 9B +28 ; 2 +29B8 42 5:98 :82 <:B32B + '
; 5^ ' " ' 8 '0 ! " ' - ! 75 ' " ' ' C # -
- ' # 0 A ; 6 8 ' + .= +3 @980 ?9 53 + '32832 :3 *0
<42P :B8 42 8:5 92B2 H :9BB2 9I .:+ 3 + ' G:52 28*
<42P &2BG2 9 4B92 \242889M 9 E2B842P <B48 :58
3 58 :53 9.=2:B 3B:E420 H # #" ' " 'R - R K
<'
- ' (! ' 7(& #3 < . B40 76 7
' # ' Q 4*.G29B/ :9 S Q *
.=2 +/0 ' ' 2B ; 2 4&= 83: B2 5 39B2+2 ' : ; ' 4&<52
B J542 428 .= ; <80 4:53 +28 @ ; G28 8:53 GB3
+:5J9280 ; 259280 .:9E2B328 42 <: # '6 0
- ' (! ' 58 ' 4 3 < B.2 0?9& + 82& ; G+2 7(& #
25 ; B.= 53 ' 6
3' # ' Q 4*.=:5/0 ' 'Z ' 583B9 ; 253 <:9B
.:9<2B +28 .2B4 28
- ' (! ' ; 593 '42 7B '8 ' '
3' # ' Q 4*.=:/0 ' ' 5 428 5: ; 8 E9+K
J B28 42 + ' G982
' Q 4*8 * +&0 h ; :9 ++2280 235 :5 >4*8 *R& 0
@ ' ' 0 583B9 ; 253 ?9 ' .:58 832 25 952 + ; 2 4& . 2B
.:9BG42 25 42 ; *.2B.+20 42532+42 23 A42 ' 952 ' '
<: J542 42 G: 80 23 ?9 '82B3 ' .:9<2B +28 'J28 426 6 ',
<+ 5328 .432 +28 <: ; ' + 'B4.:+2 428 JB 580 + ' ; : 8*
' '

:5' 425:8' .= ;<8'+ 882B '5:8' 9. ++2809 '50' "'
28' = 28' 8253' ; B80' 4 3* +0' +2M .=2M 5:8' ; 8' 28'
<BA2B J92' .G .95' <<:B3 53' 8 '+ 9. ++2 ' ' '
' ' ' 28' G+8 '3:9 98 ' 9'@:R29A' ; : 8*
8:5529B' 33254253' + ' 9. ++20' ' 8 ' " '
'+ # ' LL J' #233B2' + ' 9. ++2' 4 58' + ' ; : 8*
8:5' 4& 93B9 0' 2 ; < 432B' 89B' +28' B:5.3 :580' +2' ; ! 2B'
+& 93B9 ' 2' <:B+2M <+98' + ' 9. ++2' 9' .= ' ;<' ?9&95'
93B2' '82 ; 40' ['C - #'0L :<9+ B2 ; 253' 5'
4 34&952.= :82' 3:B392' ?9&2+2' 283' 4B: 32' .: ; ; 2' 952'
9. ++2' 5' 4 3' 42' ?92+?9&95'?9' 3'952' ; 9E 82'
.3 :50' ?9& +' E ' 25' < B 4 8' 4B: 3' .: ; ; ' 952' 9K
. ++2' ' ' ; ;' 42' <+98 29B8' <: 88:580' 32+8' ?92' +2'
8< B20' +2' .R<B 50' +2' 8 + ; :52' LL F0 2B ; 2' 4& 83B:*
5: ; 2' :5832++ 3 :5' <+ .42' '+ '4B: 32' 49' :9E 2B'
"&' 2B ; 2' 42' <=2=2' 583B9 ; 253' <:9B' 3 B2B' +28' <: 8K
8:58' 49' 8 G+2
-' # 0A ; 6' 8' $92' .= +' ?9 ' '8: 253<:9BE254B20'
95' 425 2B' 25' 4: E253' < B' 5' 42' . 8.952' 9. ++20'
0' . ('<' ' +' ; 83' 8' 9. ++2' 25' 9*
3B9' G+N0' + 5# '" ';! '<'" 'LL E6' 8' 8' :5' 33253'
4 88 ; 9+ 3 :5' $9' +29B' 2B ' 4B: 3' .: ; ; 2' 952' 9K
. ++20' ' #'O ! ' O' "C0' 'A56' 8' '253B2*
<B 3' +2' 42J 83' 49' < 80' 89B' 3:93' +2' GB98+2 ; 253' 428'
G+248 9A8 8:58' 42' + ' 9. ++20' 'K ' "
-' 3 (! ' ; 593 +' 42' 7B' 8' P' <B:E25^0' 7)'
& P' . 3 +' 3' <:B39J' !7(-& 3' 3 +')'
(- !
%' 'Q N*8 *++ 0' D' ; :9 ++428/0' 5' ' :9*
<2B' E2.' + ' 9. ++2' 28' G+ 8' 8253' 9. + 8
' ' : + I' ('Q ! O /%' 1" /' U * /J' &" (; &"<' 602-&&" '
' 0' "F
- ' $- ? ' 7(
%' 'Q 2*8 * N*3& 0' ; :9 ++428/0' ' '
' ! ' E9+J B2' 49' JB 54' ; B3 523' :9' ; B3 523' 5: B
-' N (! ' ; 593 '42' 7(
'Q 4*8 *++:50' ' ; :9 ++4280' 23' 5 :5' *
8 *R :5/0' ' ' LL 6' 583B9 ; 253' B2.:9BG4' 25' :B ; 2'
42' 9. ++2' <:9B' .:9<2B' 49' ; 259' G: 8' LL : 8' 9*
. ++:50' G: 8' .:9<4' E2.' .23' 583B9 ; 253' L' 0' 2B ; 2'
42' 82BB9B2B 2' 23 32' + ; 2' ?9' 82B3' 6' "E 42B' +28' < 5*
523:58' 428' .+2 8
-' # A ; 6' 8' H$9& +> 382B<2' 23' 9. ++:5' N
7B' '5' CF" 0' 3' 0' U " 0' 4 5
' ' ; 593 '42' 7(
'Q *\ :5/0' ' ' LL ' 82 9' 42' <B: 2' 42'
&:B4B2' 428' B < .28' '39' E:R 8' ; 233B2' 6' + ' GB: .=2'
:98' +28' >:9B8' 93 53' 42' 9. :58' $92' @&R' E: 8' ; 233B2'
42' .= <:580' 9' 52' ; 2' 2B 8' < 8' 95' 82 ; G+ G+2' B2*
<B: .=20' & ' ' 'E ; 0' '" ' 5' . :55 33' &= 83: B2'
49' 9. :5' 42' #25B' 0' ?9 0' 8& 3 53' 2 ; <:B34' <B 28'
952' . 52<23 =B2' 6' :53 52G+2 90' 93' <B 8' +2' +2542*
; 5' ' ! +320' 23' B2.:559' ' & 552 9' ?9& +' <:B3 30'
' '3' 0' <0' "" 0' 4 58' ' LL 2' 9. :5'
< +2B 5' :9' 9. :5' .: ; ; 950' 4 3' E9+J B2 ; 253' 29*
.:5' 5' <B254' 3:98' +28' 58' 428' 9. :58' < +2B 58' 9'
; 8' 42' 82<32 ; GB20' '+29B' < 88 J2' 4 58' +28' + 28' :9'
89B' +28' + 828' 42' + ' ; 2B0' 7B' %' 0'
<' 0' 4 58' 'LL 2' 9. :5' 8 +:50' .:559' 8:98'
+2' 5: ; ' E9+J B2' 4& ; 2B ++:50' 5: ; 'B482BE4' <:9B' + '
2 ; 2+2' < B' .2B3 58' 9329B8' ?9 ' <<2+253' B: .= 2B'
+2' ; +2' LL 2B ; 2' 42' 9. :552B 2' 2' 9. :5' 5 80'
.2+9 '?9 ' 4 4' <B 80' 3:93' <23 30' 9' 5 4' 2' 9. :5'
8:B0' .2+9 '?9 ' 5& ' <: 53' 25. :B2' <2B49' 8:5' <B2 ; 2B'
<+9 ; J2' 2' 9. :5' 5325 B20' .2+9 '?9 ' 283' <B 8' 9'
<B 532 ; <80' E 53' + ' ; 92' 2' 9. :5' G J B40' .2+9'
?9 ' 5&283' <+98' 8:B' ?9 54' N5' +2' <B254' 23' ?9 ' ' ; 94'
2' 9. :5' 3 J2B:3' :9' 3 J B:30' .2 9' ?9' E 253' 49'
.734' 42' & JR<32' 2' 9. :5' 3 + B23' :9' 3 3 B:30' .2+9'
?9 'E 253' 42' + ' B3 B 2' 23' ?9& :5' <<2+2' 42' = 932'
; ++2' LL ' 8< .2 42' <23 3' . 5:50' ?9' E 3' 3B: 8'
<:9.28' 42' 4 ; 43B2' 23' 4:53' + ' =:9+23' <28 3' ; 2'
+ EB2
-' # ' S6 8' +98' 283' 852+8' HB < 421' ?92' 525'
283' 958' +.9580' 1& ' " ' . ! ' .ME5' LA 6' 8' 9. :58'
; 948' <:9B' + B' B E: 2B0' . ! '<' 'LH A ; 6' 8' B' 8: 3'
. 8.958' .= .951' 42' 5:98' 9. :5 @ 23' 5:83B2' 4E2B*
8 B2' 8: 253' GB9G 2B8' h: 82 9' 42' <B: 2' E E 53' 42' E2B*
; 52@0' ' 9 ' 9' B283:3' 988' ?9& :5' 'G2*
8: 5J0' 2' 9. :5' ' ; 8' 8:B' 8:5' <: 5J ' . -'
F' $9 53' 5:'G B:58' +28' E: 2530' + 88253' .:BB2' '
G 54:5' 82 ; 253' .: ; '+' 298' E:+2' <B48+2. :9+:50'
1& ' " ? - '@ 0' F" ' ' S 68' +8' :53' <B 58' 25' <+9*
' 29B8' E ++28' 42' B :+2' 3:93' <+2 5' 42' <B:E 4 329B8'
42' 25 820' 23' :53' J J54' 429A' . 5:58' 23' ?9 5M2'
29. :58' < 4.28' 4& B3 ++2B 210' 2330' " ' + ! 7 ' ' -'
" ""0' 3' ; 0' <' " 0' 4 58' #
' ' ' '*."/2 * [' (! 3' / - '& ! -3
-%O&' (! - ' O / (' &"' 4 '*."/30&' (' "(%' &"' / '* + -@
/ O%-$' # !' &O%-/' (! ' ' (!' &"' '#7 - + "'#"' ( )'
- ' O' + # + "' #-(%-/2%-/' " : -(%"' #O / (' &"' $'O /aO- ('
A 7 'O ! ' / '* + -/O%-$' "%' ' (! - 'O ! ' '#7 - + "5' + O- ('
2+2' R' '2* + 4 '* + - ("' #"' %' #(@ ; * / / "' 6" ! '" ' / ' 'O%@

3 .=2' +2' + 3 5' * ' 9. :50' 9' + 3 5' 7' 29A0' '
. 982' 428' :5J+28' B2. :9BG28' 25' 9. ++20' :9' ' . 982'
428' +28' 23254928' ?9 ' :53' + ' :B ; 2' 4&952' 9A
' N*\ :*5 /0' ' 'LL 0 >2952' 9K
.:5' ' :B32' 42' . 5:5' ?9 '5& E 3' ?92' 429A' <:9K
.28' 42' 4 ; 43B20' 2+' 4:53' +2' G:9+23' 43 3' 42' 3B2 M2' :9'
?9 3:BM2' :5.28' LL 0' 422' 42' G: 8' <:822' 25' 3B E2B8'
89B' 95' 25J 5' E2.' 952' <:9+ 2' '2G ?92' G:93
-' # 'O I' 8' :9+29EB 5280' 29. :580' 9. :5*
52 9A0' 5: ; 8' <B 8' 428' 5 ; 9A' +28' <+98' B E 88 580'
.: ; ; 2' 428' 8 .B28' 23' 9. :580' 'A0' "
-' (! ' ; 593 '42' ,*
'Q 4*\ :*52*B 2/0' 8' 'LL 6' B3' 42
4B2882B' 23' 42' J: 9E2B52B' +28' 9. :58' 23' 3:98' +28' : *
82 9A' 42' <B: 2' 253B2' 8 53' JB 80' B2<B 3' &G: ; ; 2' '
+ ' <+9 ; 2' G+ 5.=2' H#25B ' + (I0' < ?92' 42' .2' 444 5'
<:9B' 8:5' :< 5 :5' 25' 9. :552B 20' ' ' < $
* ' ' ,* ') ' 'LL B 34' .: ; <:84' 89B' +28'
9. :58' 23' 89B' + ' . = ' ' & : 82 9' LL ' 2G 882
E2.' : 82 9' 42' <B: 2' LL ' 29' : ' &:5' 5: 9BB 3' +28'
9. :58' 23' +28' : 82 9A' 42' <B: 2' LL &4?9 < J2' 42' + '
.= 882' 9' 9. :50' .: ; <B25 53' +28' 9: :55 2B80' +28'
.G2E 9A0' +28' .= 2580' 23.
' (! ' - ,*
'Q N*\ :*5 4P' DB' 52' 82' + 2' @ ; 8P' 9'
<+9B 2+0' &8' 82+ 2 '428' N*\ :*5 4*M' 532++ J2538/0' 8 'W '
2+9 '?9 ' 4B2882' 23' J: 9E2 ; 2' +28' : 82 9A' 42' <B: 2'
' 2' JB 54' 9. :55 2B0' : . 2B' 42' + ' ; 8:5' 49' B: 0'
?9 ' <B28 4 3' + ' 9. :552B 2' B9R +2' LL 2B ; 2' 42' ; K
5 J2' ! :532B' 25' 9. :55 2B0' ; :932B' ' .G2E +' 49'
.434' 4B: 3' 23' 49' < 24' 4B: 30' .: ; ; 2' +28' 9. :55 2B80'
< B.2' ?9& +8' <:B3253' : 82 9' 89B' +2' <: 5J' J 9.=2
-' 'O I' (' 2' 29+. :55 2B' 283' 3:9@:9B8' <B283'
2' 9RB' <B 8 8:5' 9+. :5' A , ' 6' .BE' LAE6' 8' B'
.= 23+2' G:5' = : ; ; 2' H+2' ; B I' 25' E 2 ++2882' 23' 22B '
; : 58' <B 8 '?92' 4 E 53' 2382B 'B2G:9334' +:B8' . : ; ; 2'
95' E 2 +' 9+. :55 2B0' ?9 '52' E 93' <+98' '59+' ; 283 2B0'
= ' " '6 4 ' , ' '<' "
' - ,* ' <B: E25^0' ' 28< J5'
* '<: B39J' * ' 3 +' *
+ 'Q *\ :*5 4*B&/0' ' ' G2. B2' 428'
9. :55 2B80' := +8' <:B3253' +28' ; 25928' = B428' 4:53'
+8' :53' G28: 5' LL :932' 28< .2' 42' J G2. B2' 8 < D 2'
25' 429A0' ?92' :5' ; 23' ' B^: 5' 42' + '82+2' <:9B' <: BK
32B' 42' ; 25928' = B428
-' # 'S 6 8' & . . : ; ; :42' 0253 2B2 ; ; 3' 25'
:B ; 2' 42' . :9BB 2B0' <B254' 95' .= <2 9' 89B' 8 '32832 '
'8:5' . :83 '4B: 3' <254' 95' .= ; 230' 23' 9' J 9.=2' '
952' 28. B.2+2' :9' 9+. :5 = 2 20' ! 2B+ 5' :22 20' 0'
<' " " "0' 4 58' D
' ' 9. :55 2B
3' ' :9' 'Q *\B&/0' 8' ; ' .2' 42'
2B: 9' 4& :8 2B0' ?9& :5' <+ ^ 3' 89B' +2' . +34' 4B: 3' 428' .9 K
B 88280' 9' ; :R25' '0' <:9B' 325 B' + ' + 5.2' 25' BB 3
' ' 3' , * , ' <<9
%' 'DDY@#O@-1E' ' ' 2%-*/' #" $O!#"'
3' 'Q *4 /0' / ' + 2B' 25' 4:9G+2' 52'
3: 2' 42' + 52' 4 58' 8 ' +:5J929B0' 25' 8:B32' ?92' +28'
429A' 8 B28' 82' 3:92G2 3' LL B?9WB' 952' 3: 2 E2.'
42' + '8:+20' <B 8' ?9&2+2' ' 3' . :BB:R 2
' ' +2 ; ' - '<+ 2B
3' 'Q *4 /0' ' ' B +2' 42' G: 8' <:9BB2.2*
B' 3: 2' ' ; 289B2' ?9&2+2' 2' + 52
' (! ' - ,
3' 'Q N*429B/0' ' ' 9EB 2B' ?9' 942'
+28' 3: 28
3' 'Q33* ++/0' ' ' +' 2 ; <+ R' <:9B' 42B' '
2 B2' 952' . :939B2' :9' <: B' 2 ; < .=2B' 952' 4:9G+9B2'
42' 82' 4 B 5J2B0' 23' ?9 '52' 4: 3' < 8' 32832B
-' (! ' B' 23'
cP0 'Q N0 * 0 2/0<:B3'" 'LL 0' :989'
' 9 +' 52' 4:9G+9B2' 29 + ! 'LL ' J' $9' '8:*
. 3 ' E2.' 28' 429A' 4 ; 28' 8:53' 3:9@:9B8' 9+ 28'
2582 ; G+20' ' "N 'Q?9 '4 3' ?92' 2&283952'
+:.93 :5' 428' J258' 42' . :9B/' E2.' 428' E:+29B8' ; :5'
52E29 9 + ' 29S' ?9' :53' 4 3' 8:53' J258' '<254B2P
30' <:9B' +2' 2B: B20' +' 93' E: B' 28<B 3' 3B:9G+ 0' :'
'> ' 'O 'E0' C' 5' E 3' E .9' ' B8'
4 58' +2' <+98' JB 54' ; :5420' 23' 3B 8* 29_+ ' 89B3:93'
.=2M +2' ; B?9 8' 4& 93B2 ; :530' ' ' E'
+2' .288 '42' E: B' +28' . 4 ; . 258' 23' 93B28' J258' 42'
+233B28' E2.' +28?9238' >& 3 8 4 @ ' 9 + 0' ' ' E9
'Q + *+ /0' ' ' 0' +B2' 952' . :939B2'
'+: 5J8' <: 538' <:9B' ; 29S' B2' 25 9 32' + ' . :939B2'
4 5 3 E2' LL G8 +9 ; 2 3' ++2' 52' 8 3' ; 2' < 8'
9 +2B ' ' J' 53B: 49 B2' &283' 95' 28< :5' ?9& :5' 5'
29 + '4 58 5:3B2' 8:. 3 0' LL ' '5' B2' 8:. 3'
Q< B' 952' ; 3 <=: 2' ?9' .: ; < B2' + ' + 8:5' '952'
. :939B2' ' 29 +0' 2&283* *4 B2' .2' ?9 ' < 882' 253B2'
429A' 3: 280' ; 8' 5&0B 4: 3' < 8' 2832B' :9' 5&283' < 8' 42'
+ ' ; ; 2' 5 39B2/' 38 'E:98' J5: B2M0' 8 .=2M ?92'
@2' 9 +2' E2.' 49280' B2' = 49.80' <B 5.280' 82 J529B80'
; B?9 80' 08[:9 9B' ; 0' '@@' ' 2' 29 +2B

3' ' "' 6" ' #!O + -%- ' ' #!-/% ' %' O. "2' , ! "&, ! "'
(*2- % ' S" ' + " ' '"4" /%(! (' #" 6" ' + 1 %' "' 4O(' 4&! (' %#%'
$O ! - -& ' O. "2' ! / "' $O + -&&"' (-' 26O ' + O /%" ' 8 '
2 , ' & ' . - ' NN &! (' (* ! . " /%' (1-/ (-/ ! " '
O. "2' O#' "(("' O ! 4' (#"' , ! "&, ! ! ! / ' #O / (' ! / "' + O- (* / '
#O / (' ! / "' (*2- % ' 1" (%' ! / '6 * + + "' , ! -' (O-%' ("' $" ! @'
#&"' ' 4O' %* ! %' NN "' 7&- ((" ' ' %'O. " ' (' ' ("' $" ! ; &"'
#O / (' &O' $* ! &" ' * ! ' '%'O. " ' (' &O' $* ! &"
-' (! ' - ,
%' 'D$M@$-@&! G1E ' ' ' * ! % ! ' "' '4*-/%('
"(4O2 (' NN 1O2%-* / ' #" '$" ! $-&" ' ' ((! 9" %%-' ' 4O" ' ! / "' $" ! @'
$-&! ' "
'O I' (' O!$-&" ! ' "' ' " " ' -"I
' ' - ,
$' 'D$#&@#1E ' ' + ' #O / (' &"' / * ' # ' #" ('
$* ((" (' * ' * / ' $" -%' &" ' " ; O ' ; * / ' NN " ' + " ' #" ' + %O&&! '@'
7- " ' -' "' (! "' &O, ! "&&"' * / ' %O ; &-%' &" (' + " ! &" (' #" ' 2O&2-K
/ O%-* / ' I
' ' '*. "/3' ' , '7-' * / 5' "(4O7 / '
'7-' * / 5' -%O&' ' #"' O / 2 ' 6 ' O&& " + '
'4&-' / ' O' 4O(('#! ' " / (' #" ' 7-' * / '4&-' '2"&! -'
#!O- ' " ' #" ' $*(("
O' D RE' (' $' *8' 1' ' $
'D$#@/ ! 1E ' (' 'NN I' - . - / -% '26O + 4 %' "'26"<'
&" (' = * + O- / (5' &" (' $O ! / " (' (* / %' $-7 ! ' (' O. "2' #" ('
* ' " -&&" (' #" 2 ; " . ' "' * ! #' ! ' + * - / (' #" (' * ' " -&&" (' 4&! (' 7 ' O / @'
#" (' , ! ! ' *' #-/O- ' " ' 5' ' "/ # ' * -%' * ' $-/ -%' 1 4-/ "' #!'
#* (' * / ' . * &%' ! / "' 4"%-%"' , ! " ! " ' ' & , ' 8 + 46"'
, ! - ' #O / (' &" (' 2* + 4 * (-%-* / (' #" (' O'% (' #! ' #" ((- / ' (1O&@'
&-"' O ! :' $O ! / " (' ' "%' , ! -' "/ ' O' &" (' % 'O-%(' "' ; ! (%"'
"(%' 2"&! -D -+ "$" ! / "' NN d' "' + "' #"' <* * &*7- " ' O ! / "'
#" (' ; * - (' &"' (-/ 7"' + O ; ' * ! [' NN Yi' #' ' 1" / (" + @'
; &"' #" (' O / - + O ! :' #! ! / ' 4O8 (' O- / (- #' % ' O ! ("' , ! "'
&" (' $O ! / " (%-" / / / "% ' #"' O / - + O&-%' ' "%' $O-%' #! ' $ + -@'
/ - / ' 4O' ' O / O&* 7-' O. "2' &O' ' O' $O ! / "' "%' &O' -&* ' "'
#"' &O' *! . #&"@ *&$' / #" ' -N ! . 'O7' "' 2* / %' "/ O / %' &O'
#" (2'-4%-*' #" ('O / - + O! :' #! ! / ' 4O8 (
' ?' *8'
V$ 'D$#@/ ! (1E ' ' ' " ' (* / / O7' "' + 8%6*&*@'
7-, ! "' 26" <' &" (' O%-4 (' "4' ("/ % ' %O / % # % 2* + + "' ! / '
#- "' ! ' 6O + 4 %' "' , ! -' '"/ #O-%' #" (' * ' O2&' #" (' % O / %'
2* + + "' -+ 'O / 2-"/ ' / ' '*-' #1&&O&-"
' ?' - , ' , ! "' &" (' %8 + *&*7-(%" (' &O%-/ ('
'O%%O26" / %' $O%' '2' D(-7 / -$-O / %' ; * / ' &"' $O. * 'O ; &"' E '
"%' , ! "' 2" ! : ' , ! -' 2* / $' * / %' " / ' &"' O / (2'-%' '"7O' #" / %'
2* + + "' , ! -. -#"' / %' #! ' O / (2'-%' " F ' . " / % D ! / '
#- " ! ' #! ' . " / %E ' ! ' " (%" ' / ' ' "%' ' O44O' @'
%-" / / "' %' ' " (' ' "O2-/ ' " 2* + + " ! / ' " ' 4 ' ! ' -$- " '
\' O' D$O@4 '@#' -@" -E ' ' ' / '
#" (' / ' * (' #! ' ; ! (O ' # ' #" (' #" 'O' O- (' ' *- (O ! ' # " ' 4 ' * -" '
, ! - 4 ' " ' / # ' &" (' 4 " ' # ' - : ' ' , ' =5
' 'O I' (' " ' $" ! 4 " ' # ' 9" ! : ' " (% ' , ! " & , ! " ' 4 " ! '
#" ' + * & / # ' " ' 2* ' 4 ! & ' " / 2" ' , ! ! / ' + - -O / 5 ' % * ! % ' (" ' $ * '
4&! (6O ! % ' /9O + ' ; ' O8O /%' &" ' ; " ' " ' % ' &" (* / 7 % ' " (' + 2-/ ('
2' * 26 ! (' , ! " % * ! (' #" (' O ! %' " (' * - (" ' O ! ' # " ' 'O4-/ ' ' " ' '
#" (' C ,7' " ' ' B' #O / (
' - , ' $O ! 2* / ' D. *8' ,7'
O#9' 2%-$ %-' ' #" ' 7' $O ! 2* / ' ' 4' " ' # ' - :
V$ Q 'D$O@[1E ' ! ' $' &O/ * 6" ' '2* ! &-(("' 4* ! ! '
#-. - (' " ' / ' 2* + 4O' % - + " / % ' ' "' (' " ' + - (" ' (' # ! ' (O . * / / - " '
U' #" ' 4 &@ / ' "' + " ' # " ' 4 26" ' &O6 2 6 " (' , ! * ' (' O 9 ! (% " '
'2* ! &-(("' O ! % ' (' O ! * ' # " (' - # " ' O ! ' 4 * ! ' ' " + 4 26 " ' , ! " ' &O'
&O + " ' ! 1 " / % ' # " ' #O / (
H 'D$O@ @' , ' ' ' NN I' "&! -' , ! - ' $O -% ' ! / '
$O ! : ' O2%" ' ! / " ' $" ! ((" ' (- 7 / O% ! ' " ' * ! ' , ! - O&% ' ' " ! / '
O2%" ' O ! O6 " / % ' %- , ! " ' / ' O - + " ' O ' + - " ! : ' , ! ! ! / ' $O ! ((O- ' "
U ! / ' 6 * + + " ' , ! - ' O ! ' O -%' $ " ; ' - , ! ' &" (' 4 ' *46 %- " (9 '
4 '*46 %-' ' , ! (O- " ' ! / ' ' , ! "' S ' + - " ' ! / ' ' , ! ' O / -" &'
U&"' ' (* $%J ' A ' - / ' B ' "' 2* / / O&%' O-(@%! ! $O ! 4O('
, ! "&, ! "' ; * / / %-" ' $O ! ((O-' " Q ! - (" ' . -% ' (" O + - ('
' O ' $ ' Y ' / ' 2O&" / # ' -" ' ! / - . " (' " & " ! % " ' %- &"
%! " &' ! - # 2* ! ' &O' $O ! (" % ' ! # ! ' / ' % - " % ' , ! ! * ' # * / @
/ O-% 4 * ! ' O / 2-" / / " ' $ -% ' $ " ; & ' (" O + - ' " (O ! ((O -' " '
' # ,7 ' Q' 4O ((O-%4 ' ! ' &" ' 4 &! (' ; O-' / O ! ' -" ' $O ! (K
(O- ' " ' (* ' % ' ! # ' ! - 4 (' %O-%&! ' , ! - O.O-% ; O- / ' $O - % ' '
(* ! (' &" ' / ' * + - " ' O&- %% ' ' &" (' ; &&" ' ! ' 4 ' " ' + %@
%O-" / ' % ' O / ' 2* + + " % ' * ! + 7 / O2 ' ! 4* ! ' " ' (O (* ! (' '
' ' ' = , ' B$ ' > , / ' % ' + ' 4 ' AR '
' * ! ; &" ' $O ! ! ((O - ' " ' $ " ! ! ((O - ' " ' / $ * ' 2 ' $ " ! ! ((O - '
(O / (' (2 ! ! 4 ! & ' / # ! ' 2 - (@ % * - & ' 2 * " ! ' (* - (' O ' O ; ' ' 2 * ' K
(O - ' (' / 9 ! (% " ' . - & " / % ' (O / (' $ * - ' # * ! ; & ' ' $ O ! ((O - ' "
' 8 B ' . + ' ' #9 " 2% - . " + " / %' * - & ' 2 " ' , ! - ' ! O 4 @
4 " & & " ' ! / ' 7 ' * ' (' + " / ' (* / 7 " ' - + 4 - - / ' 5 - & 8 ' O ' + + "
#O / (' 2 " %%% ' $ - 2% - * / ' ' 9 " ' / " (O- (' , ! - ' 4 " ' " $ " + (O- " ' , ! -
+ " $O - % ' # " ' & O ' 4 " - / ' " 9 ' = ' ' ' * 2 % ' BAA '
I' ' (" # - % ' ' , ! " & , / " $ * - (' 4 * ! ' " + / % ' ! / ' 4 " + 4 " ! '
6 - ' + " (' 8 " ! : ' - ' . * (' / " ' + ! (- % (" ' (- ' . * ! '
/ % " (' $O ! ((O - ' " ' * ! (' % ' " (# " ' + * / ' 6 " ! " ' # " (" ! ! & ('
O#. " (P# ' " (' 7 ' ' O - (' 4 * ! ' ' , ! " & , ! " '
. " % ! ((- ' 4 ! ' " (' - (' / 2 ' " (' * + ; - ' " / ' 8 ' % " ! ' . " @%@ * / '
#! - + 4 ! # " / %" (" $ " ! ((O - ' " (T ' * O ' %' :
' : + I' (' ' + " %' (* / ' O . " ' (O - ' " ' / ' 4 " ' - &'
" (% " ' $ " ! ((O - ' " (' '111 ' ' 9 : - . I (@' O2* / % ' @'

G '428 ; :55:R28 J92 +28 ; + . 29A _9 8 B28
:53 3 3280 9 32 ; <8 < 8820 25 2: 5J8 82 ; G+ G+28
9A 5:83B280 #" ! '" ' #! '" ' #'3'50 <' " 7'
> '283 24B 8 98 B2M h?9' 9882 8:5 82B ; 253I
<B:9E2M .+ B2 ; 253' ' &25. :53B2 #9:50 +2 B:R
B 5.=2 <2530 A7/7 ' 1 'E' "CNN' LL ME 6 8'
25' 9 B2G:9B8 <B: ; 23 &232 ; 2+ 9A 988 B28 2
+29BB254B2 82<3 : 8 23 82<3 : 8 +29B8 8 + B280
' ,# / =7 @; 7' 232 J253 988 B20 '3G' E
-' (!' B:E25^[332 B3 28< J5' 23 3 +')'
3 49 + 3 5 [_2B ; 80 42 # 'QE:R' " !

0 . ' '842/0 # ' '#]'S'?9:'
:5' '; 5?94' '?92+8 82B ; 2538 988288 89 8*@2 E2B8
E:98 .:9< G+2^ 6' ' > - ! 7' ; 0 "' 'H B 5K
.: 8]E' E + 4:554 8 '< B:+2 S = B+28*$9 53 42
+9 'B2 ; 233B2 +' :9BJ :'2 <B: ; 2882 32 < B
'J7 / # B 8:50 ; 8 E2.' =:5320 9
C '3 "' ' ' 2549 _9 ' 'E: A _98842'
' J' > J2 ; 2530 28<B 3 9884' LL F' :9BG4 < B
?92+?92 E :+25.2' ' .9 B 882 988'2 < B + ' :B.2
49 .:9<
' Q 3*82* ; 5/0 "5' '53B2' + 'E4*
B 32' 3 8 53 9882 ; 253 < B+2B +28 ; ; :B3 +80
#'?- /!- 'E0%' =2B ; 0 8' ; :5'<GB2 95 @:9B
4' 8 G98" + 53 +2 ; +=29B 4&95 ++8 9882 ; 253 .*
.9840 '0& "# 'E0 W
-' 'A ; 0 8' Z+ 'E+2 ++21 $9' 32+ 4 ; 2 3B = 3
9882 ; 253 H<2B 42 ; 2531 25 B2. : 320 2B380 .AAAE '
'S 6 8' H 28 + ; 548 42 541 B28< :54 B253
?9& +8 9R: 253 .: ; ; 2 J258 3B = 8 9882 ; 253 23
42. :5 38 49 .: ; 32 42 + 54B2 23 42 .29A 42 B9K
J280 '90 90 FC
' ' 7 ' 23 +2 89 A2 - 3 <B:E25^'
A -P 28< J5' 23 3 >' A -
'Q +*84/05' 'LL ' 254B2 9A0 B254B2
.:53B B2 4+ 'E2B 340 25< B+ 53428 <B: ; 28828 3280
42 + ' :'4:5522 'G2 9A '$9& + ++2 <:9B
8:5 G 25 ?92 39 + 98828 3 ' : 0 7 'P ' ' 9
98828 3:5 82B ; 253 :9B 4:552B & 8:5 .B ; 2 95
@9832 .G43 ; 2530 'C #' ">? "#7 '0 "'
; :5 ' 2 <:9E 3 82 B48:94B2 6' 9882B + '<B:6
; 288G &43B2 44+2 \'8' ; :3 40 '1!7 '
:50 5:50 5& R2M < 8 <29B $92 @2' 9882 < B:+20
U +2 ' 0 ' ' 9882B +2 258 42 + '+: 0 4&95
32A320 4:552B 952 9882 532B<B43 3 :5 S 952 +: 0
S 95' 32A32' L ; + 4B2 ; 253' 9882B .: ; < J5+20
<B:<B2 ; 253 43B2 9A0 5 44+4 S 952 .: ; < J5+20
230 < B 89 320 ?9 33 2B 952 .: ; < J5+2 8 58 <B254B2
.:5J40 52 <S8 82 3B:9E2B S 95' B2542M*E:98' ; 80
; : 58 42 .4B4 ; :5 20 9 G 25 @2' ; 882 .:5? J5 20
' #/' .' $9 54 @2' 9882 < :9B E:98 .: ; *
< J5 2 S 3:93 93B20 6' 'D #!-' "*? A6#"('
0 ' ' 5 +2 4 3 988' <:9B 8 J5 2B '52 < 8 B2
.2 ?9' 43 3 <B: ; 8 :9 332549' :B8?920 < B ; <9 8*
8 5.2 :9 < B ; 4<B 80 + ' 59 3 5 9882 .: ; < V*
J5 2 ' '@ 'A3' '254B2 9A0 443B9 B2
+ '@9832882' 9882B + 'E: A' 9882B &28<B 3' LL] 2B*
+:2 42 @9B 8<B9425.2 4:4 +2' 9882B + ' .:9B :9 +2
@9J2 ; 2530 8:9325 B ? &95 @9J2 ; 253 5&283 < 8 4?9 *
3 G+2' 5 8&2A<:8 3 G2 9 .:9< 25' 988 53 95 @9J2K
; 253 428 < B80 ('< #' E9 0 'LL :9B*
=2B0 3:B4B2 95 .:B<8 8:+ 420 42 8:B32 ?9& + 52 82
B24B2882 <+98 42 +9 * ; 4 ; 2' 9882B 952 .+2 0 952
+ ; 2' LL 9882B 95282BB9B2025' JS32B +28 B288:B38< B
?92+?92 2 :B3' LL 5 :5.2B 8 58 3B E2B82B' 28 .:9<8
4&4<22 9884B253 828 B ; 28 25 4 E2B8 254B: 380 ['
0 ?7 7 !-' + E' 50 4 58 'LL 5 :5.2B
25 3B E2B8 53' ' +4.=20 988 53 + ' .9 B 8820 +9'
253 'G 25 E 53 4 58 +2 .:B<80 7 'U'1' 'N'
+0 %6 *5' = 532B 9A' 05 E29J+2 R .= 532 25
988 53 ' B 4:54 520 # ' # " ' NN M0 2
9882B0 W' B [+' 33B2 9882' 28 <B: ; 28828 ?9' 82
9882530 428 82B ; 2538 ?9' 82 E :+253' LL 2E25 B 9A'
' : + 42 .23 .329B .: ; ; 25.2 S 82 9882B' LLc3B2'
3:B490 25 :5.4' '+ ; 2 82 :988' < B + 'E :+25.2
49 .:9<' ' 2B ; 2 ; + 3 B2' 8 <+98 :B ; 2B 952
+ J52 4B: 320 25 < B+ 53 428 + 5J8' 24B2882B +28
B 5J8 ?9' 82 8:53 988 80
-'# 'S 6 8' >2 8' +' +8 H+2 @9J2 ; 2531 0 :4' +'
; &25 .: ; G 3B 0 1&' '"'. ! ' 111' LL A9 6 8' $9 B*
B +8 H. BB2 91 52 + 5.2 5&25 <923 H<2931 ; + 4 ?
9882B' . !- '<'M '>' 9 32A @32+1 @:B8 ?92 H: +@ +28
4 ; 28 ; : 253 2 +2 + .92B0 8 58 2 54B2 23 8 58
9882B0 M4 '.! ' -('<' BA' *"E:98 H21 2B'
952 32+ G 20 2 598 H59 1 'E 253 ?9' 3 8& ; :B
98 20 >' 42+ ; :983 2B5025 E2B ' &253B 2 H3&253BS210
3G' <'"F' # 8 3:98 +29B 8 B2 ; 25M H +81 982B25342
+2J 2B' @ B' E' $9 53 + 283 E:83B2 =92 ; '+ J280 +
98 42 3 2' <:B32B0 '325 B 25 39M + 98 E:83B2 =:59B
2 J9 B42B ?9 53 + E:+33:+ B E:83B2 .9B3 2 982B0
' <2+2 93B2 .9B30 42? :+& <:2M JB2E2B0 ,&' ' #
""' H 91 2 + '42 M + G989 5J 52 ++ B 52 +82B0

< ,' '""C"' 'A 56 8' U/(J :53 &= 83: B2 988420
:5?92 ; 8 H@21 52 E' 8 0 ' ' ' :98 E2M E:83B2
.:5E25 5.2 98842 25E2B8 ; :R0 '"' 9 119'
3 ?92 +' 2A2.9329B 52 <9 88253 9882B +2 3283 ; 253
4:53 + 8:53 2A2.9329B0 + R 'G:52 B28:50 '
A@ 0 F' :93 58 0 ?9' E293 9882B 328 ; : 580 + 4: 3
+288 2B < 882B +2 <E2 ; 2B 328 ; : 5J ' 5' 1' E;'
'95' =: ; 2 E 93 HE2930 + ' .:9B3 9882B0 23 4 3 ?92
+2 @9J2 ; 253 :9 &28J B3 :9 + ' .:5: 88 5.2 :9 +2 B2*
.:B3 ?92 + ' .:9B3 ' S3 283 + 98 23 428+2 9 ; 253
3 '& ' ' ' 0 "C3' L A E6 8' 3 283 ; :9+3
<+98 S ..982B ?92 52 8:53 .29+M ?9' .: ; ; <253 :9
+8253 + ' ; :55: 20 '> ' N"' LL AE6 8' 2
?92+ .: ; < J5:5 E 3 9+84 :9 3 9+82B S 95
@2952 .+2B.' .2B3 528 +233B28 B:R 9+A0 " ' ' S
' 2 93 .=:82 ; :9+3 283B 5J2 S +9R 42 58'
9+82B 8' :' 23 8:R 58' G 882B0 A' "' 9
'""C '>94 80 <+98 52 32 242B R0 &283 42
>=289 ?9' 3:93 9882 :3B2 +:R 23 + '8292 H+ '8 2552@
288 9.20 'O ' ' .' #' ' ' B2832 ; 253 B2*
.: ; ; 2522B253 +29B8 B ; 280 23 42 .2++2 B25. :53B2 +2
82 J529B 42 2 ; 53 4:55 '8' JB 54 .:9< ?9& +
9?' >2 G .523 O @:9B0 :' "' ' ' K '
+ E' '<' "F0 4 58 ' 9 ; :3 * , "'LLAE 6 8'
+ ++9 ; '8:5 .:9B J20 230 9+8 53 + '<B28820 4:55 '
@98?928 S '1 '50 88' :83B2' 532++ J25.2 ''
.:549 8 53 < B + '829+2 E:R2 42 + '< B:+20 .2+9R ?9'
+ ' 9+82 3B = 3 + '8:. 2340 "' 'CF' & ; 2542 ?9'
49 .: ; ; 95' .:582532 ; 253 42 5:98 3:98 E: 3 2834
<B28.B <32 S &25. :53B2 42 .2+9R ?9' 9882B: 3 .: ; *
< J5 20 # ' ' " ' "
-' (!' e ++0 ' B2 ; 5?92 ; 253 <B:K
E25^' 23 <:B39J' 3 28< J' 3 3 +' S
'49 + 3' '42 , ' 9A "
"' 'Q *8S +2 3 52 82 + 2 < 8 4 58 +2
< B+2B :B4 5 B2/0 ' ' V 28 ; 2 42 ; 98 ?92'
: A 42 34320 .&283*S 4 B2 E: A ?92 <B254 95' =: ; ; 2
; 3 53 +28 5:328 J9J8 42 + 'E: A 42 2 ; ; 2 :9
4&25 _530 290 <+98 2A .32 ; 2530 E: A ?9' 82 <B: 49 3
?9 54 :5' 3 E GB2B +28 .:B428 89<4B 29B28 49 + *
+R5A0 .2 ?9' 4:552 +2 B2J 83B2 42 3432 :9 98823
3 54 8 ?92 + 'E GB 3 :5 428 .:B428 5 2B 29B28 4:552
+2 B2J 83B2 42 <: 3B 52' 'B2 52 82 ; 3 25 .:+4B20
<B: 4B 53 42 8:5 3:5 42 98823 JB2 23 4+2E4 .28
<B:<B28 ; :38 '? N' ' ; JJ' = .95 E:9+ 53 < BK
+2B +2 <B2 ; 2B0 23 +28 2 ; ; 28 <+98 ?92 +28 =: ; ; 28
E2.'+29B E: A 42 S98823 '< '* ' ,
C' 9 32 ; <8 ?9&:5 43 3 B'9 3 9A < 4228 42 # B4R0
+ @:9 3 25 98823 23 8:98 +28 ; 8?928 +28 B4+28 42
5:9BB .20 5' '0 N' 9 8' ^:5 42 B B2 238:5 3:5 42
98823 53* +8 42 E:98 3:9.=2B 89 3B:9E2B +2 82.B23^
'A '50 ' ' .: ; 32882 8&4J:8 ++20 +2 .: ; 32
<B254 8:5 98823 84E' " "' &95 3B 58 25 +:5J8
B24:58 952 E: A J+ < 88 532 3 & 93B20 & <<9R 53
42 8:5 JB2 98823 2 ; G+2 95 E :+:5 9A ?9'
@9B2 8:98 & B.=230 '# ' ' >2 5& '@ ; 8 <9
; & .:939 ; 2B S E: B +28 B4+28 42 48 B 23 4& +2A 5*
4B2 B24:5548 25 98823 < B 95 2G <:50 9 '
= 'O *' 'O , 'N"0 "' 4EB' "CN"' LL ; K
+ 4B2 ; 253' E: B 952 E: A 42 98823 < B+2B 4&95
3:5 42 98823 82 4 3 4&95 =: ; ; 2 3 4:53 + 'E: A
283 JB4+2' NN 0 2+9' ?9' '952 E: A 42 98823' 3
: ++:5' + 'G 882 23 B 54 5 +2 988230 '=,
E' ' J' :5 42 .28 988238 49 B5 8820 $9 0
<:9B E: B J+ <' < B : 8 $92+?92 4< 3G + ; 2 S+ '
J+ .2 58 95 <23 3 ; :542 G:9BJ2: 80 2 . 98253
+98 ?9&25 :+28 B ; 280 2 E:98 < B+253 ?92 4& <:+K
+:5 ' ' ,
['# 'O I' 3 4 53 25 B3 .= 532 25 98823
#25'" N' & 9B 'E: 8 5 25 898 42 ; :' $9' G 25
5&2532542 ; :5 98230 'NF 'LLAE6 8' '.: ; ; 25^'
8+ +2B25' 98823 '50 9 0 :8
-'# (!' 3 +' '>' >' :9882 9 .B: 30 8 58
& B ; 2B0 ?92 *' 'E 253 49 + 3 5 ,7' ,*'
+ 'J:BJ20 23 + <B:<:820 25 .:584?925.20 42 &4*
.B B2 ,*' ! 8 3 + 25 '<B:9E2 ?9& +
E 253 49 + 3 5 , ' .2332 E: A 43 53 8 58 4:932
58' 4 32 < B.2 ?9&2+2 283 ; : 58 <+2 52 ?92 + 'E: A
42 <: 3B 52' 0
' 'Q 4*84 +2 '52 82 <B:5:5.2 < 8 9
<+9B 2+0 &8 82 + 2 428 N*82*M 25 :5248 4 58 + '< 422/0
' ; ' 23 32 GB:.=2 42 G: 8 82BE 53 S G:9.=2B +2
3B:9 3 E2.' 95 :B23 S 95 3:552 9' LL 6 2B ; 2
42 . ++ JB <G 2' 22 4&952 <+9 ; 2 ?9' 82 32B ; 52
25 <: 532 3B48*2 +42
-'# 'O I 8' + 52 82 <B 53 J B42 ?9&25 3 B 53
+2 5 +2 98823 +9' 2.= <<'424 58 +2 <:30 " 8 '
:53280 O ./' : ; ; 253 ; 233B2 9 3:552 9 &28< 52
:9 J9 ++20 25 B 5.2 <<2++42 :.230 '"'
F ' 889B2*3:R ?92 39 5& 9B 8 BJ253 428:B ; 8
?92 < B +2 <23 3 988230 '"' ' :5328 >,'
' :=' N0 ' 800 4 58 " ' B 8 A 23 S 82<30
3:93 < 882 < B 95 :8823 H2&283*S*4 B2 +2 3 E2B5 2B 5&

?9&952 8:B32 42 E 5 23 +2 3 < R2B 4 E2B82 ; 2531 0
0 17#! '#
-' (!' B J 52 5.:5592' 5 +2 3B:9E2 4.B'
! ' !(3 ; 8 .2+ '5&4.+ B. 3 B 25
' ' 'Q N*84/0 ' ' 98823 49 8 B 50
E:R' S
'Q N*82*34/0 '[LL' 6 $9 + 34 42 .2?9'
283 9A' 3 @2 .:55 8 <29 42 EB 8 = 258 :53 :5
<9 882 @ ; 8 33254B2 2 <+ 8 B ?92 ; 2 3 + ' 98*
8234 428 ; 2580 ' 'C ' 7- ' 25*
343 <B28 :5 293 428 +233B28 49 .:589+0 ?9' ; :5*
3B4B253 + ' 988234 42 .2 =B9 30 '0 K '
-('1<75# '3' E ; 0 <' ""C0 4 58 ' '
988234 4&95 .32 283 95 .B ; 2 <+98 JB 54 ?92
+2 8 ; <+2 ; 258:5J2 2+2 448 J52 952 ; <:839B2
@9B 4 ?920 95 + B. 5 3 E2.' + '<+9 ; 20 9 '
& ' 7 ' &283 58' ?920 <:9B 2A<+ ?92B + '
8R83:+2 23 + ' 4 83:+2 49 .:29B0 + H 28. B3281 ; K
J 52 95 ; :9E2 ; 253 23 952 .:5 :B ; 3 :5 4 58 .2
E 824B20 4:53 3:98 +28 5 3: ; 8328 :53 B2. :559 + '
9882340 9 ' ' Q !-' 50 f ' 6 =:82 9882' &283
S 428 9882348 8 58 =28: 5 B2. :9B B0 ' ,& !)
"!# '90 ' >2 E:98 4.B E 8 E 53*G 2B0 .B:R 53 ?92
.2 ?9' 43 3 B4< 549 49 B23:9B 49 <B 5.2 42 :53'
S 2B8 +28 +3 952 E4B 34 ; 8 @& '89 ?92 @0 '
; 544 952 988234 0 ?9' 283 + ' .=:82 49 ; :542 ?92
@2' = 8 +2 <+980 8 E' "66 ; '"NFN' :9328 +28 98K
82348 ?9&:5 5:98 '44G 3428 89B +2 J:9E2B92 ; 253
428 9B.80 4:53 5:98 8: ; ; 28 8' E: 8 580 4: E253
G 25 B24:9G+2B 5:3B2 44 5.2 89B &G 83: B2 5*
.25520 9 'C 5# '"7"' E 420 =3 ?9&S ; 28
R29' 3:5 5 :B3952 283 JB 542+ :5 <:9B 5& E: 3
<9 B2 9A 3RB 58 BB 328 J242B 42 328 E2B8 +28
S.=28 9882348 ' ' # '<' NYI' 9<+ . 40
=R<:.B 832' 2 ; 3 5 25.:B20 2+2 +9' B2529E2+ 3 25
; '<B4825.2 3:9328 .28 <B:3283 3 :58 ?92+2 988234'
0 ,& "'">"7 '>-#/ -' 'N' Lb "] 2B ; 2
4:4 + 988234 42 @9J2 ; 2530 ..98 3 :5 ?92 :5
<:B3 3 3 ; 53B2 +2 @9J20 4& E: B ; 253' S8 ' :
-' (' #' ' ?' 988234
283 +2 .:53B B2 42 + 'E4B 340 .2 5&283 < 8 <B:<B2 ; 253
+2 ; 258:5J2' 4 58 +2?92+ + 253B2 3:9@:9B8 49 428*
82 5' + 8' 'G2 9.:9< 42 988234 4 58 +28 = 83:* '
B 2580 428 2BB29B8 .=2M +28 <= +:8:<=280 428 ; 25*
8:5J28 4 58 <B28?92 3:98 +28 4.B 38 <:+4 ; ?9280 23
25.:B2 <+98 4 58 +28 8 3 B ?928' 988234 283 <B28K
?92 3:9@:9B8 25.:B2 <+98 ?9&2B29B8' 988234
3: ; G2 89B +28 380 2BB29B8 89B +28 :< 5 :58' &283
952 2BB29 '42 .B: B2 ?92 +2 8:+2 + 3:9B52 93:9B 42
+ '32BB2 .&283 ; 2 + 988234 4& E 5.2B ?92 :98 S '
4 .3 ' +2 3283 ; 253 42 = B+28 0 9 ' '& '
7
-' 0 A56 8' :98 4 328 =9882+2M' < '<' "'
>2 E:98 < B4: 5 8 58 59+2 982340 '<' 7
'A 96 8' 2 E:4B: 2 ; :B B 5.: 8 $9& ; :B8 ; &2 83
42 98.234 2 42 3B 8:5 B234 H ..984@0 '.! '
' ! 8 988234M0 ?9' < B :93 E:+20 $9' .D28*
3 258 3 253 S 28.:+20 - ' " N' '428< B2 H ; 4< 0*
82B1 + 'E 5+34 9 ; 9540 \'5&283 :B8 988240 <"17 #' '
'1!-' ' FN' &283 < 8 98234 52 ; 29895J20
' F' + ?9' 3 9.952 98234 25 ; 83 4 283
429A 3258 < B28 ?92 . + ?9' 982 :B :9 BJ2530
' ,# ! '<' Y B' >2= 5 B2+230 E:8
9882348 E:98 3 ^:9 H.2+ I' 4 B20 G 25 +28 0 '
" '1& # '"6 84B 20 3' E0 <' "NF' LL ABE6 8' B 4 *
8:58 <B48 42 .29+A ?9' ; :583B253 E2B 34 23 42 .29+'
?9' 4 253 :9 ; :583B253 48 34 25 .:5E2B8 3 :5 G9*
; 520 '<&' Y ' ' .:5 288 '&0 4 32 988234
42 B 89B2 HB 39B2I' : -!S # 'LLAE '8' '
+. 34 428?92++28 :< 5 :58 ' 2'-:'0#
-' (!' e ++:50 "3 <B:E25^0 ' A'
" 3 28< J5' "3 <:B39J' " ' 3 3 +')'
"3 49 + 3 5 '42 7 ' 9A "' 9A E6
8 4232 23 9 : .-I :5 B2 3 +2 ; :3 89B +2 + 3 50 4 8 53
'?9' =&283 < 8 B2834
3' 'Q 4*829B/0 ' '@I 0 2B ; 2 4& 5*
.2558 <B 3 ?92' 2+9' ?9' 33 ?9 3 95 @9J2 ; 253
25 3 A 53+28 @9J28 42 ; 9B 82 : ' 2 988298 ?9'
3 <<2+4 :5' 428 @9J280 <:9E 3 <2B4B2 < B +2
.: ; G 3 8:5 <B:2480 C'< 'AAE 0 'LL ' 2K
+9' ?9' 9882 952 <B: ; 28820 95 82B ; 253
-'# 'S 6 8' :9B?9:' + '32BBE2 52 8& :9EB 3*2+2
<:9B 25J+ :93 B .2' 988298 42 :'^' ' '
-' (!' 7 #
$' 'Q N*89*B&/0 ' ' :9BG9B2 #!!/"'
.+:.=20 S 254B: 3 : + 2+2 .: ; ; 25.2 S 8&2+ BJ B
-'# 'S(6 8' S 25E B:5 42 283 J2 ?9' 283:33
.: ; ; 2 95 J' < + 8 3:93 B:540 E: 3 25283B280 23 25*
3:9B R E: 3 95 J' .2B.+2 42 2B 42 ; 2BE2 +298< JB 5K
429B0 . B + 25E B:55: 3 3:9328 +28 25283B280 23
<254: 3 S 3:93 428 +238 42 2B ?9' +25: 253 '+'
9+89B2 42 + '3:9B0 0 #(!# '3' ; 0 'N6
0 -' (!' 7 #

' Q +*3&/0' 6' .3 :5' 42' + B0' ; 5*'
?92 ; 253' .:53B2' 58' &=: ; ;2' ?9' <:B3 '552' _ ;2'
G2++2' 23' = 9320' $9 54' 829' 5' 952' < B3' +' ' 3' 952'
_932 ' ? ' ' ' :9B' 93:B 82B' + 8' JB 5428'
93280' 8' 52' ; 5?9253' < 8' 42' JB 548' 2 2 ; <+280'
8' ' ' !7#' C6' " (' 5E2B8' 5:8' .+3:R258' @2'
8 8' ?92++2' 283' ; ' \9320' .: 5'1 -- ' ;0' ' 2+' 3'
B8' 952' <+ 8 532' 932' S' .23' ; D ' ' 'D # '
258' 3B:<' =29B29A' :53' 3:9@:5B8' ?92+?92' 9320' " '
'$92' 5:98' 5:98' < B4:55:58' 82 ; 253' 5:8' 9328'
?9 54' + ' :B3952' 5:98' +28' < B4:552' ' 'K - '
">?-/ ' 28' <+98' 2A<2B ; 25328' 4 58' +28' B28' :53'
428' 9328' . < 3 +280' 5' ' S' .28' ; :380' ; 8' 3B:<'
3 B40' B2.:55 88 53' ; ' 9320' >2' +2' 89+8' 25' 3B2 ; K
9+ 53' 4 58' 952' .= ; GB2' = 9320' '@ '5 ' :98'
?9' 3 9' .:5 288 :55 +@ 82 ; G+2M0' 25' B2325 53' 952'
< B3 2' 42' E:8' 93280' 52' 4 B2' & 93B2' ?92' <:9B' < 8 B'
+28' B2 ; :B48' 42' E:3B2' .:58. 25.20' E ' 7 & - '
#' 283' <'5 G+2' =' 95' =: ; ; 2' 2B' 42' < B4:552B' S .2*'
+ '?9' +2' 89B<B254' 25' 932' 23' ?9' 82' <+ 53' 42' +9'
E2.' B 8:50' ' '9' 5' ' 3' 42' +:9B428' 9K
328P' @2' 8 8' !25' .2' ?92' @2' 4 80' @2' 89 8' 49' ; 43 2B0'
@& ' 9' + 'J92BB20' 23' &= 83: B2' ;&25' 'G2 9::9<' <*'
<B 80' 'O' 28' 9328' 428' 8:38' 8:53' ?92+?92 : 8' 8'
+:9B428' 23' 8' 4 . +28' S <B4E: B0' ?9&2++28' ; 233253' +28'
8 J28' 25' 44 93' 23' 52' 8:53' 93 +28' ?9&S .29A' ?9' +28'
:530' 'O' 5' 52' E 3' <: 53' 882M' <:9B' <B: +2B' 42'
828' 93280' " ' ' $92+?92' 44+ . 3' ?9&:5' 8: 3' 25'
; :9B0' :5' < B4:552' <+98' 42' 9328' ?92' 4 58' & ; *'
3 40' B:0' ' '5& '<: 53' 42' =:532' 42' E:9+: B' B2< B2B'
828' 93280' ' , 'A ' 3' .&283' + '829+2' 932' :='
3: ; G ' .2' JB 54' =: ; ; 20' 9 ' > <B3' " '1 '50' " '
52' 932' ?92' 3' +2' <B 5.2' 9JS52' 44+ EB '+2' B: '23'
' B 5.2' 42' 3 53' 4& 5?9 439428P' :5' <B43254' ?92'
828' + J528' 43 253' 3B:<' 43254928' " '+!7 ' 'Y'
' ; 2' ?928+ :55 3' 42' B' 4&95' =: ; ; 2' 8 B' 42' ; 2'
<*254B2' 25' 9320' 23' <9 8' 8:9B 3' ; + J52 ; 2530' @'@'
. ((' 1! - 'O' ! ' 932' ; 5325 53' 82' 42.:9EB2' S
; :8' E29A0' " ' & !'50' + 'L 2' 5&283< 8' ; ' 9320'
.&283* *4 B2' @2' 5& <9' R' ; 233B2' :G83 .+20' <B2E25 B' + '
.=:820' :++252 ; &283< 8' ; <93 G+2' :985& E:58B 25'
6:5.+90' ; 8' .2' 5&28' < 8' ; ' 9320' '@ # !#'
' ' 2+ H+ ; :B349' ; + 421' BB E2' ?92+?92 : 80' ; 8'
.2' 5&283< 8' + ' 932' 42' + ' ; 242. 52' - ' ' 93' 4:52'
?9:' .2' 8: 3' + ' 932' 428' ; S42. 580' <9 8' ?92' .2' 5&283'
< 8' .2+2' 42' + ' ; 442. 520' '1# ' " '
'3' ' ' 2B ; 2' 42' @9B 8<B9425.2' 2J+ J25.2' :9'
5.9B 2' 8 58' 53253 :5' 42' 59 B2' L +' 82' 4 3' 9'
@29' 42' < 9 ; 20' ?9 54' .2+9' ?9' 82B3' 52' 3:9.=2'
< 8' +2' <B2 ; 2B' 3: 3' 29A' 9328' E +253' ?9 5M2' L J'
! B?92M ?9 5M20' .&283' 952' 9320' 82' 4 3' <:9B' B2'
<2B.2E: B' ?9&:5' '. : ; 8' ?92+?92 932' L" ! 5*'
?92 ; 253' .:53B2' 95' <B 5. <20' 952' BSJ+2' 932' 4&:B*'
3=:JB <=2' 932' 42' 83R+2 932' 4& ; <B288 :5' 932'
4& ..:B4' '5&R ' < 8' 952' 829+2' 932' 42' + 5J J2'
4 58' + 'JB 542' 8.S5242' 55 '23' 4& ; + 20' : +' 55'
B254' : : ; <32' 42' 8:5' 253B2E92' E2.' +28' .:5@9B48P' 23S'
<2 52' 25' 3B:9E2*3*:5' 9' 429A' 4 58' .2332' 93B2'
82G52' ; ; :B32+2' : +' 9J9832' 42+ GSB2' 8& +' 82' 44 ; 23*'
3B '42' &2 ; < B20' 9 ' & ' + ! - / 7 ' 5' <293'
N3B2' 95' 3B28*G:5' 9329B' E2.?92+?928' 93280' ; 8'
5:5' E2.' G2 9.:9<' 42' 93280' " ' ' & '@!('
#! ' " ' +!-"# ' 5' E: 3' ; 29A' 828' 9328' ?9 54'
2++28' 8:53' ; <B ; 4280' " ' + ' + ! 'A' : 3 ABA'
2' 52' 8:53' < 8' +28' JB 5428' 9328' 428' :R2B0' 428'
5.=230' 428' 2++2JB 50' .28' 9328' J5:B28' ?9& +'
93' B2+2E2B0' ; 8' +28' <23 328' 9328' 428' JB 548'
2B'E 58P' . B' +8' 82 ; 35:8' ; :49+280' 23' +' 93'.B 5*'
4B2' 42' 52' +29B' B2882 ; G+2B' ?92' < B' +29B8' ; 9E 8'
2 3 80' ; ' + ' " ?#/ - ' V@9 5' AY) L ; <2BK
2.3 :5' 4 58' 95' :9EB J2' + R' ' !25' 428' 9328'
4 58' .2332' 3: 20' 4 58' .2332' =B:42B 2' L N' 3 3'
42' .2' ?9' ' ++ 0' <B E 3 :50' G825.2' #' R' ' 932'
42' E EB28' 8' 5&:53' < 8' 932' 42' G:5' 8258' 23' 4&2 *'
< B 25.20' N' N0' (' 7#' ' (!7#' +2A 54B2'
5&293' <: 53' 932' 42' 8:+4 380' 7 ' U' 1' "NC'
'5&R ' <: 53' 4& 5 ; +' 3 53' < B 3' 23' 3 53' =29*'
B2982 ; 253' 5 '?9& +' <9 882' 3B20' ?9' 882' +2' 82 ; G+ G+2'
H?9' < B+2' . : ; ; 2' &=: ; ; 21P' .2' ?9' 5& BB E2' < 8'
42' .2 ?9& +8' :53' 932' 4&:BJ 520' " ' C & '5' '
>2' 5& '5' 932' 4&R29A' 5' _932' 42' .:9B J20' '
D!"!/ ' BE0N' B' +2' + 88:580' +' 5&25' E 254B ' < 8'
932' H&:5' 5&25' 9B ' < 8' G28: 510' ' 0 '
; GR82' 8&25' B2E 53S' =GG28' E2.' 932' 4&95' JB 54'
5: ; GB2' 42' 828' J2580' <' ' ,# " ' ">K #!" '
' & +' BB E 3' 932' 42' +9 0' 8& +' E25 3' 932' 42' +9 0' 8& +'
E25 3' S ; :9B B' & +' +3' BB E' 932' 42' .2' <B 5.20'
"G ' , 'QNC' & +' E 253' 932' 42' E:980'
; :5' +80' @2' 52E29A' <+98' B2832B' 9' ; :5420' 'D '
/' '7' 5' 'E9' + ' < 88 :5' 49' B: '23' 42' + 'B2 52'
4& 8< J52' 42' E25 B' B J52B' 25' B 5.20' 8& +' BB E 3'
932' 42' B: 0' ! ' "F 0' Q' B2' 9320' ; 5*'
?92B0' 3B2' 25' ; : 5 0' B2' 4 93' 28' .:582 +8' 5:98

$*/%'$--!%"' *!('/*!('0."<'$0-%'$0!%" -"/*;&"
; 52' = 9320' 3' E E2' ; ; 2' 4 58' +28' R29A' 88 :5'
52' +9' 8 3' 9320' ' ' E0' 8' L B2'
932' S:9' 42 ' ; 5?92B' S0' 52' < 8' B2' &952' 42'
+9' 8:9B B2' 9' B23:9B' 52' 3' 9320' ' 'D ! '
28' J258' 49' < R8' 428' G+28' :55253' :B4 5 B2 ; 253'
: ; 8' 23 3 3B28' JB G+28' 882M' + G B +2 ; 253 ' # :K
B .2' 5&R 8 3' 9320' " ' ' " '(!-('NN '5&R _ 328'
9320' :B ; 9+ '4:53' :5' 82' 82BE 3' 4 58' +28' +233B28' 42'
. .=23' <:9B' 4 B2' 5&R ; 5?92M' < 80' 23 : +' '8 J5 2'
58 ' L 2' B2' 932' 420' 8& G8325 B' 42' :9B?9: '82'
28 253* +8' 932' 42' <+29B2B" @'@' ' ' 'L 2'
< 8' 82' B2' 932' 42' ?92+?92' .=:820' 982B' 4 '?92+?92'
.=:82' 8 58' ; 5 J2 ; 2530' 8 58' B 82BE20' 8&25' <B: .9K
B2B' 3 53' ?9&:5' 25' E293' 2' E:98' 328' < 8' 932' 42'
; 28' 82BE .28' 5++ ; ; 8' 4&95' G2 9' M +20' +8' 82' 8:53'
.:38 8' 23 :53' :B ; 2' 952' 8: ; ; 2' 42' . 5?9 532' ; ++2'
.980' ?9& +8' :53' <B 2' ! '4& B.= J5R' 4& ..2<32B0' 25'
+9' ; B?9 53' ?9& +' 52' 8&29' 3' 9320'
C ' (# ' 3' AAE50' <' 7N' $9 53' 9A' 8 J5 K
39B28' HS <<:82B' S 95' <B:.28*E2BG +' ; 258:5J2BI0'
E:98' <2582M ! 25' ?9& '52' 8&25' 2B ' 9320' .' '
0 ##'1 5 #'"'CC' ';7/ 'L & <BS8' 42' *
B280' 25' N7N0' 52' < 8' 82' B2' 932' 42 '283' ; '23'
<:<9+ B2' &98 J2' 5& ' < 8' B 3 '.23' BB 3' 428' <9*'
B 8328P' 23' + ' +:.93 :5' 283' B283 2' 4 58' +2' G:5' 98 K
J2' Md' B2E 882' ?9' 8&283' 32' 4 58' 95' 39R 9' 42'
.:549 32' 25' <+: ; G' L C0 932' " ' !(' # ' B'
; 5?92' 3' +2' . : ; G 3' .288' 932' 42' . : ; G 33 5380'
' 1 " ' 0' ' 932' 42' ; 2' .:55 3B20' +' 8&2 ; *'
<:B320' +' 8&2J B20' " ' (! ' 0' ' 3' 932' 42' 82B*'
E B' .2' <+ 3 H.= B4:5810' B2 ; 253' 95' 283 5' 42*'
; 29B20' ' ' 'E ; 0' A ' :93 .2+ 5&283' E259'
?92' 932' 42' 8 E: B' 42582B0' ' ' D!7#/ ' - '
5' 52' 4 8<932' 89B' .2332' ; 3 2B2' ?92' 932' 42' 8&25*'
3254B20' 9' " N' 932' 4& 3B2' 882M' <<9R '42' ; 28'
89..28829B8' H.29A' 42' A32*$9 5310' E:98' H#25B' I'
E2M' 3'2A<:8 'S 3 53' 42' .:5@9B 3 :58' ?9&25 +5' :5'
E:98' ' 3' < BB0' # ' 'AE 'C # ' !" ' 932'
42' G 80' < 88 53' +2' @:9B' 5' + 3' 58' .:9E2B39B20'
58' ?92' 8 58' = G 30' ?2' B24:55 8' 428' E2B8' 89B' + '
< B28820' 9 '0 75' " ' 9 8828*390' 42' 3: * ; ; 2'
32B52+2' E .3 ; 20' 53 882B' +28' =:5529B8' 8 58' . : ; *'
G+2B' .23' G ; 2' H+ '<2B32' 4&95' +810' 3' < 9EB2' 9' 82 5'
428' G 2580' 932' 4&95' !25' 8' 4:9A '2' ' $'
0 # ' 'N' 'S' 932' 420' 4 58' +2' . 8' : +' ; 5*'
?92B 3 '8': 5' 52' <:9E 3' < 8 B' 54 J28K
3 :58' 2 ; <B2B' +2' ; 9E 8' 32 53' ?92' E:98' E2M' S
932' 42' E:98' 2A2B.2B0' ' ' ,# ' " ' - ' " '
@ - =7 '-.' '>&2A J2' 42' E:980' ; 4 ; 20' ?92' E:98'
52' ; 2' 4 B2M < 8' 95' 829+' ; :3' 5 '49' ; 2B 32' 42' ; ; 5'
3B E +0' 5 0' S 932' 42' ; B 320' 42' + ' <:5' E2.' + *'
?92++2' @2' E:98' 25' < B+20' N' + E' E 0' +233' + + ' S'
932' 4& 3B2' ; 2' :5' <293' 82' B2' .B 54B20'
, ! ' 4&:B0' ; 0' " ' S' 932' 42' 3B:9E2B' +28' + 29A' <B:*'
<B280' ' K ' 50' N' L7]' 58' 9320' !(' "5'
; ; 5?9 G+2 ; 253' 52' ; :53 J52' 25' ; +' 4&25 53'
>23 3' 952' .+ ; 29B' 8' = 9320' $92' .= .95' 9' GB9 3'
..:9B 53 B93' ?9&2++2' ..:9.=2B 3' 8 58' 932' &952'
. 3 '<+98' JB:882' ?92' B 80' ' " ' '
>2' 82B '8 58' 932' S B 8' ; 2B.B24 0' ' + '
=7 ' "%F' ' B:E2BG28' 28' 9328' 8:53' <:9B' +28'
@:929B80' .:53B2' +28' @:929B80' 2&283*S*4 B2' .&283' 9A'
@:929B8' S <:B32B' + ' <2 52' 428' 9328' ?9& +8' :53' 4 58'
+2' @29' '$9' 3+ ' 932' + 'G: 30' .2+9 '?9' ' 3' 952'
932' 25' 4: 3' <:B32B' + ' <2 52' L 5' 4 3' 42' ; ; 2'
9 8?92' + ' 932' 283' 320' +' 93' + 'G: B2' H 28'
< .G29B80' +28' .= 8829B8' 23' +28' <B2529B8' 42' 3 9<28'
2B 253' 42' G2 9A' .:9<8 8 58' +28' 9328
' ?' 7 ' '(-7/-$-"' 40" +0/,!"' #"' 1"(%'
$0!%"' #10%%"' /%-*/' , !!-&' /!0' 40(' '"&".$-' 2"%%%"' "' '"!' '
?0-(' "' /' 40' &0/%' #!!/' " "' ' "!' 2* + + -(" ' 40" , ! " &@'
, !!! / ' */ ' / " #-'0' 40(' ' 1"(%' ! / " $0!%" #!0%%" /%-*/ 5'
-&' $0!#'0' #-' "' ' 1"(%' ! / " $0!%" #!-/0%%" /%-*/ ' *!'
4&!%#%' 2!"(%' ! / "$0!%" 2* + + -(" 40" -/0%%" /%-*/
-' # 0 A ; 6' 8' 83' ; 288 J2' H.28' ; 288 J2B8I' 98'
; B 58' 4& JR<32' <B 2B253' +2' B:R' ?92' +' +29B' 4:5*'
5 83' 952' @:9B5 20' < B' ?9:R' +' <2988253' E25 B' E2B8'
+2' B:R0' 23' +' R' 25E: 2B: 253' 8 58' 9320' '$3S
'O I' ('*4' + -"!:'&!-' .0&*-%' + * ! ' - "O' 6 * / / " ! '
23' 33254B2' & E2539B2' ?92' ; :53B2B' 932' 42' ..:9B J20'
88' 50' 5 0' CF' +M E: 253 9+32' HG28: 5I' 42' .2 ! A'
?9& +M E: 253' ; 28<B 82M0' ' ' J' 3' +28' 8829*'
B: 3' ! 25' +2' B:R' ?9& +' 5&R 5B: 3<: 53' 42' 29+32' ?9& +'
52' G + 83' + '<:88288 :5' 494 3' < R80' " ' 50' %' 2'
.29 A*+S' 2983' +' 3B:9E '95J' JB 54' 5: ; GB2' ' '<:9B'
+ ' ; :B3' 52' +9' 2988253 2 23 9+320' " '9 'C* 2 +'
293' + 88 '8 58' <: 53' 42' 9+32' +' 3 583' 9@:9B*'
4&=9R' 3:932' .2832' 82 J529B 2' 8:9GM 8:5' BG 3B J20'
'E0' " ' 2' 3 + ' 9+32' ?92' 95J' 93B2' G: 30' !'
:9A' ' .E0' 0#!5' ' ' <' " ' 'L E 08' ! 8' 9+32'
42' 8? E: B' :98' 4 :83' + ' G:9.=2' 23' 3:93' G:5' ..5.2*'
E: B0' >' ! 0' 3' 0' F' S' 9+32' 42' B2' 952' .=:82

! 0' 0' 7' 8' 5&:53' 9+32' 4& 9.952' .=:82' 52..8*'
8 B20' " ' 'J;Y' :93' .2.R' ; & ' 30' 23' ; 2' 325K
.:B28' <2582B0' ?92' 932' 42' 8&253B2*E 8 32B' ?9 54' +26'
: .. 8 :58' +2' B2?9 2B2530' S 3' ?92' 5:98' 42E25 :588 9*'
E J28' +28' 958' 9A' 93B280' 'Ea' : ; ; 2' .2 8'
?9' :53' <B 8' 95' 9A' 28.9' <:9B' 95' G:50' < B' 932' 42'
+2' <282B' 23' ! 25' B2J 42B0' 5 ' N ' 9328' H4 938I'
E +253' 2A<+: 380' $ 0' ' ; ' ; 29A' <:9B' 8:5'
J254B2' 95' =: ; ; 2' ?9' 2983' 9+32' 42' ! 2580' ?92' 428'
G 258' ?9' 2988253' 9+32' 4&=: ; ; 20' $ ' 9 '
' '39R+20' 39 ; G 53' 9' +:5J' 42' + ' 32832' S+ ' _9+32'
42' & B ; 230' +9' 4:55 '4B: 3' 89B' +2' .= J5:5' 49' .:+0'
'O4 , 'AM' 2+ 0' B28<:54 3* +0' 283*.2' ; ' 9+32'
:9' + ' 9+32' 4&2+2' " ! 23B:.+28' B28<:54 3' + ' 9+32' 25'
283' S2++20' 23 & 5 :B3952' 25' 283' S 3:R0' " ' ! ' +'
' ' &283' 95' 3B28:B' :4' @2' 52' .=2B.=2' @ ; 8'
S 932' H25' E 510' 9 'A ' '-/ ' <' M' 4 58'
$ " ' 2' + ' 9+32' 42' <B9425.2' +8' e : ; G253' 25'
9+32' 42' .929B0' '# ' 0' ' $9' ' 932'
4&=29B0' + 'E 2' +9' 89B G:5420' 1' " ' $'O /'
3'50' <' F
- ' ! ' 8< J5' <:B39J' 23' 3 + ' ' &283' +2'
5: ; ' E2BG +' Q&95' E2BG2' B: ; 5' P' 28< J5' ' 3 + '
' ?9' ' ; 5?92' 25' B 5? 8' 23' ?9' 283' +2' B *'
?9253 3 '49' + 3 5' 'QE:R' ' 23' :'
G
'Q 4*329++0' > ; :9 ++ 28/08' ; #' ' B 54
8 J2' S 4:8' 23' S GB 8 =' 9329 +' ; &2 ; G BB 882P
5' =: ; ; 2' S 424 58' 283' 3:93' 25E2+:<< 0' >2' 52' ; 2'
3B:9E2' ! 25' ?92' 4 58' 95'. 5 < 0' " ' ! D'
50' ' 2' 9329 +' S' GB 80' + ' .= 82' S 4:80' +2' 3 G:9K
B230' + ' ; 5' 4B: 32' 23' + ' ; 5' J 9.=2' :53' 23' '<25K
4 53' <+98' 29B8' 8 2.+28' 4& ; <:B3 538' <G@238' 42' <:+ K
3 ?92' 23' 4& ++983B28' 89@238' 42' ?92B2++280' 9 ' ! '
" ' 'L 9329 +' S+ ' :+3 B20' :9 9329 +'
:+3 B20' JB 54' 9329 +' S 4:8B25E2B8 'L O 9329 +'
?920' 4 58' + '8 ++2' 428' 8 5.28' 42' & . 4 ; 2' _ 5'
? 820' .=2?92' . 42' ; .25' :5..9<2' 5' 25' B254 3'
. : ; <32' 9' B: ' H428' 9329 +8' ?92' 82' 8 253' <*'
<:B32B' +28' JB 548' 82 J529B80' ; 2 ; GB28' 42' & . K
4 ; 2' 3 5? 8210' ?9 0' <B E:R 53' +28' 2:58 ?925.28'
4&952' < B2 ++2' 4 83 5.3 :50' :B4:55 'S & 53254 53' 49'
J B42* ; 29G+2' 42' B2' <:B32B' ?9 B 532' 9329 +8' S
& . 42 ; 20' 23 .:5 +8 ; ' < B' S 23' <:9B' 3:9@:9B8' & *'
J +3' . 4 ; ?920' " ' '&* ' 'C>,'
/ '3' O' <' B '4 58' ' 5' B 5.2' :5'
30' < B' 95' <+ 8 53' ; :R250' B2' 95' 9 29B' ?9 54'
4& .B 38' + 88: ; 2P' 58' 99' 9329 +' 4& . 4 ; *'
. 250' 9' ?9 B 53 S ; 20' :5' 3' 882: B' .23 =: ; ; 20'
< #0 >" ' ' G8:+9 ; 2530' +2' S9329 + ' :B8' +'
8&254:B30' +' 52' 3' <+98' ?9&95' 8: ; ; 2P' +98' 5&25'
E2M' <B:82' 5 ' ; 4B J +P' 9' G2+' 28<B 3 +2' 9329 +'
283' 25' 8: ; ; 2' 2' ?9&S & ; :9B' 283' +2' + 3 .:5@9J +0'
0 " ' 5' 8:9B. ++29A' B ; 29B' 9' 9329 +'
583 ++ 0' ' 6 ' 4' A' ' O ' $92' 4 58' 95'
G:5' _9329 +' +' 4:B ; 2' S 8:5' B23:9B0' .' " 9 '
' 'S+ ' 5' 58' '@&25' @9J2' S E:3B2' .*'
.92 +0' ! ' .= 82' 5&283' < 8' 95' S9329 +0 #
&* ' ' / 'L J' ' <+ .2' 42' ; 2 ; GB2' 42' & *'
. 4 ; 2' 5? 82' :++ ?32B' +2' 9329 + 'L 2' ?9 K
B 532' 23' 95 ; 2' S932 +0' 82' 4 3' 428' =: ; ; 28' ?9 0'
R 53' ; B3 '4& 3B2' 42' D . 4 ; 2' B 5? 820' 5&25'
:53' @ ; 8' 3 'L ' G8:+9 ; 253' ' <B 8 425.2'
4&952' 882 ; G+2' 4 +G B 532' L ' <B 8 425.2' 4&952'
8:. 3 '42' @29' S +' 3 253 +2' 9329 +' ?9 29B' 3B2' =29B28'
42' 89 32' .=2M B 83 20' 23' + ' +' ' 4 B 8?92' 2G ?92' 8: B' . 5?'
< 83:+28' 4&:B0' ' 'E5' ' 9329 +' 42' <:832' :9'
3B ; :988: B0' 8:B32' 42' ; .= 52' < B' +2' ; :R25' 42' + *'
?92++2' :5' S 3 95' 2A2B. .2' 93 +2' S+ ' 8 53 '8 58' 8:B3 B'
42' 8 '.= ; GB2P' +28' ?9 3B2' < 248' <:8253 89B' 95' 89<K
<:B3 .:9BG20' 42' ; 5 B2' ?9&:5' 82' G + 5.2' < B' 95'
<23 3 ; :9E2 ; 253' 49' .:B<80' .: ; ; 2' +28' 25 538' 89B'
.2B3 58' .=2E 9A' 42' G: 8
- ' # 'S 6 8' 5' +4283:24' ' :53' 2 3' 3:93' 4&:B'
; 2B' .9BI0' ' ' 'E ; '#A9' 6 8' ' +' < 8' ; :5K
32530' @S' 2B3' + ' B: 8' B2?9 8P' :2R8' 3B92E253' 2' 9'
428392' 8 80' ' ' ' ' 'LA ; 6' 8' ' B: 8' 8 83' 25'
95' 94283923' 32+.:5S32+' =: ; 2' 283923' H.:5E 25.I0'
' 'F N 0' & :5' '95' 9428392 +' 42E 53' & 93 2B'
H 932+I0' 23' S 8& <<9 2' +2' B2' 25' .3 :580' 6B' '
' 'Y
- '# 9 ']e :50' , ' <B:E25?' ' @
' 28< J5' <:B39J' 23 3 +P' 3' G 8*+ 3'
, ' , '42' & 5.' = 93* ++2 ; '
, ' ' " ' 23' , '8 J2' 2' ,'
, '93' <B ; 3 E2 ; 253' 95' 8 J2' <+ 53
0' 'Q *329B0' 3B *8&/0' ' ' 23' '
6 2+9 0' .2++2' ?9' E:B 82 <B:3 J2 58' G 2580' 8 58'
2 ; <+: 0' 8 58' 9329B0' @'@' '0 'E ; ' M
.=2B.=2' 95' 9329B' 42' 828' J: 4380' 95' . : ; < J5:5' 42' 83B'
<+ 8 B8' 23' 42' 828' <2 5280' ' > " ' , '
& 'H0 I '82' 4 3' +2' <+98' 8:9E253' E2.' 428' ; :38'
?9' +2' :53' <B254B2' 25 ; 9E 82' < B3' :98' 328' =:

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

+ ' 32 B0 2'L 3X 'E0 "'LL^V 9G 5'95 ' 23 3B 8* 23B: 3' :92B 95'< ?923 "2.' 952 E29B' 5' <<2* + ' 93B2 : 8 E:9B80 4^8 B9G 580 428 J 5380 428 G:9.+280 428 5:294 ' "+ <4W0 4:59 !' < B 9 32 4 ;20V ' ' & d'@ & B29B0 Q F0 50 E296 420 !(' # ' 5' .:5 4.B<3 :5 42' 4 290 ; 63BG8*.='B2 0' G2+20@2' E 98 4 B + 4:52 ?92 @2 E:98 ; 20 8 58 .B 532 42 E:J8 5 +R2B0 <9 8?92 E:98 +2 8:9 B2M0 25' E29B 42 3 :5 @3R+2 E:98 328 JB_.2 ' ; :5' .:29B 25' E29B 42 ; :5' 28<B 30 5&283*.2 < 8 @9832* ; 253 .2+ '8FE' "" 'LL 9'<B: 30 ' & E 53 J2' ' ' 3 95'3283 ; 253 25' E29 0 42 8:5'52E29' 28 B2.8 9J B253 25' E29B 4& +R8820 ' , " ' A A' &283 + ' ?9283 :5 ?92 & 9329B 89<<:82 8 58 <B29E2 44. 442 25'8 ' E29B0 ' :B' 0I' - #')'F 'NN 58 & 5* 3cBN3 420 <:9B + '. 982 42' 0283 3B:< ;& ; <:B39* ' *52B 25' E29B 4&95 89@230 ' '(! ' ; 0' ' ' .B E 3 9 8 5 3 25' E29B 428 2GB43 2580 '@ ' 0' ' ' B2.2 25' ; ' E29B 283 3B:< 5?9 23420 ' 54B' 0 0 :93 +9 ' < B+20 ; 4 ; 20 25' E29B 4& JB << 520 5'D# ' 0 + ' 3* + 25'8 ' E29B @98* ?9&: 'E 'E:3B2 283 ; 2 ^ 'D &#' 50 ' 2 ?92 +28 4+29B :53 3 25'E:3B2 E29B0) ' , ' E' & < B2 988 343 82 4 . B '25' E29B 42 88 54B20 ' K ' !- ' <75' 3' E 0 < ') 0 4 58 ' ' B E25 B 25' E29B 42 ?92+?9&950 42 ?92+?92 .=:820 254:552B4& E 5.2952 :< 5 :5 E 53'2982' 2332 .:549 32 <B E 253 25'8 ' E29B' 5'<23 3 5: ; * GB2 4& ; 8 <B2E2598 25' E:3B2 E29B0 '?5 - ' 7/ 'LL7' '+ ' E29B 420 !(' # ' 9' ; :R250 ' 42 42' B + ' E29B 42 + '59 3 + 8&23 3 8 9E '25' 5 J2 530 F ' , 'E9 'B + ' E29B 42 .23 :B J2 * +29B .= << 0 ' 'ME 'LL :98 + ' E29B 420 < ; 2 8258' ! B.G:588:98 + ' E29B 428 : ; GB28 42 + '59 30 .: # [+98' ! 7 'C'LL :B52 +2 4 30 E2.+2 ; ; 2 82580 25' E29B 420 ?9 '5&283 < 8 98 3 0 '9'49 ; : 58 ?9' 283 E2.' 95 8258 3:93 .:53B B2 >98?928 25' 2+ +2* :9B @2 E:98 'B2.:549 3' :9B E: B 952 ; +* 3B2882 25' E29B 42 + '59 3'@7 '"7'D - 'E0 " - ' # 'S 6 8 ' H 29AI' \ ' 28J B4253 .: ; '+' e 5* 4 2 ; 253 42 .283 8 2.+2 8953 42. E G+20 \ '828 E:B8 3 25253 '<2B82.93 :58' ! '<'"N 'LLA E'8' 3 82 ; * ! : 3 G 25' ' B?9 5 98 ?92 + E: 3 <+98 JB 53 K E29B 25'+ '.:9B3 ?92 42E 530 8' & 0 5 # !' 2 8: 3 ' ; :9B80 52 E29B0 52 = +520 2 .=:82 9' ; :542 ?9'3&25.+ 52 B B2 B 258 42 428+: +0 !' 7/0,&'<' C' S 6 8' 5' E29B 49 B:R 8:5 52<* E290 S>=' " '" '1& # ' ' YB ' 2 &"' B:R 8 ' _E29B 4:55:3 .2+9 '?9 '+2 ; 29A G: B: 30 : ; 32 :9' ; B?9 8 + ; 2 2B: 30 # 'LLAE 6 8' 28* ?92+8 H<B29AI' .= .952 H4 ; 2I' 'E:9+9 B2.2E: B 52 _E29B ?9&2+2 3 << B: 83B20 ' 5'?92 ; 29A :5'+ ' <9 8a2.:5J5: 83B20 * 80 C' 5' ; :9+ 5' + ' K E29B 49?92+ + 8&283: 3 <<B:2G 0 'Y " ' 28 * E29B823 4 8JB .28 42 + ' :B39520 " '0 NC' +E: 4E25 B :?92 ; :B23 G 25'.:5E2B3 42 <255 .=28 23 42 * E29B8 4&952 B: 520 "G ' K ' '"NN' + +2E '828 G+:.98<:9B 8& ++2B . ; <2B '+ ' E29B 4 ' + 5. 25* 52 ' '50 A :5' B3 ++2B 2 93 42 N. 5:58 42 G 332B 20 +2 3:93 28?9 < '23 < 0 5:5' '+ ' E29B ; 8 + '.B 5320 ?9 '+:B8 E ++: 3G 25 3 530 ' ' Q 0 N' 28 <B2 ; 2B8 G:58 82BE .28 ?9++ +29B E: 3 3 380 +9' <<:B3: 253 <+98 42 E29B ?92 +28 42B5 2* B28 ; <93 3 :58 52 +9 '. 98: 2534242 E29B0 ! 0 @!#'M ' + 82 ; G+2 ?92 .2+9R ?9 '<:B32 89B +2 8 J2 ' 0>28 'E29B8 42 + ' 5 39B2 ; <B ; 28 25' 952 B B2 23 ' B .2++2532 G2 93 0 R3 ?92+?92 +2J 3 ; 2 <9 88 5.2 0 6 89B 5:98 ' 6 '@ / ' 0N' + 25'B2.:55: 8* 3B2 0 B ; 2 42 &2552 ; 0 +29B .:5325 5.20 :B4B2 42 G 3 +2 23 :B ; 2 42 ; B.=2B0 E: B2 288 R2B 4&253 * ; 2B ?92+?9&95 42 828 28. 4B:580 8'?92+?9&95 42 8 ' <:B3 2 8&2 ; . <: 3 42 ?9 332B + ' E29B H<B:32.3 :5I' * 0 42+G 3 ++:580 'D ' 3' 0 <' " F0 4 58 :' # ' - 'BB !' B:E25.'23 28< J5' 5!#3 3 +' "5!# 3 '+ 3' 5!# '42 5 # ' 2E:B 82B0 325 53 9'B * 6 4 . + 58.B 3 "'<9B 2B ' S0 ' Q *E2=0 E2 *M&/0 " ; ' 2B ; 2 , 4 .3 ?92' $9' B2882 ; G+2 ' 428 B R:58 42 ; 2+' ' 2B ; 2 42 ; 42. 52' 2 J52 E29820 ; + 4 2 .9* 3 5 2 .=B:5 ?920 .:53 J 29820 B .3 B8 2 < B 428 2B:3+328 4&952 :429B 4 J:43 5320 ?9' 53 ''.: ; * < B 28 ' 428 B R:58 42 ; 2+ :' :' ' 3' 57 'B R:5 3' ! ' Q *E * 4B* ; &/0 W_&' 2B ; 2 4& = 8* 3: B2 5 39B2+ +2' $9' 283 25' :B ; 2 4& +E :+28 ' ' 3' 57 'B R:50 +E :+20 23 !# 3' ' Q *E:*52* /0 ' ' ' J2882 39* 0 e B2982' I & #7 ' 7 #! 7 3' + 9 b ' Q *E:*B *G+&/0: " *ZI+ ' $9' 4:552 E:9B' & B:< E:B G+28 4 29A0 E:98 ; & E2M .:9* 3220 ' :B' ; 0 ' 82 J529B0 +2 @9832 . 2+ E:98 283 G 25' E:B G+20 5'D!"!/3 E0 8' E:B G+2 '.29A

?9' ; B3 253 8 '<B:32.3 :50 . E+ ' .29A ' ?9' + 52 <:9E 3 3B2 E:B G+20 0 ' = ' >& * E:92 E2.'+ '8 5. B3 '?92 @2 E:98 4: 80 ?92 @2 .B 58 ?32' E:98 52 8:R2M E:B G+2 9' :B3* :R + 428 .= ; <80 ' = ' , ' * ' ' . F 5:E' VC C' 293* 3B2 4& 93B28 R29A ; 2 8:53 <+98 \E:B G+280 ' & '50 ' '@ ; 8 ' ; 28 E229A E:98 328 E:B G+20 5U'6> ' 0 C'LL ' + 82 4 3 428 .=:828 4 58 + ' ; 2 8258' 3 +2 8:B3 E:B G+2 ' 8:5 + .=2 33 5GU30 ' < ' 0 ' 28 >9 8 B * 3 G+ 88 253 +29B 32 ; <+2 23 .: ; ; 25? 253 'B2+2E2B E' B98 +2 ;'8:98 +28 E:B G+28 4 38 428B: 8 42 2B820 ' 0 'O' 0 ' 2582M*E:98 J9&#2B ; :520 ' < B32 52A:B G+20 :98 <B < B2 25' < B2 95 8:B3 <+98 E:B G+2^ ' & ' ' ' 28 E2538 42E2* 5 253 E:B G+28 9A E 882 9A 42 =R<B20 ' 9 ' ' 88 5.2 42 = B+28*$9 53 4 58 + 'E +2 42 540 +2 '" EB 2B0@:9B 42 8 53 ! 3= 80 .2 ?9&:5' ' B2 ; B?9 0< B.2 ?92 .2@:9B +9 ' 93 3:9@:9B8 42<9 8 E:B G+20 9 ' & ' '$&> "' ' 7 ' MM ' 5 52 <:9E 3 ; 252B 95' .:5E: ' 5 ' B2 95 :9BB J2 8 58 .: ; G 33B20 42 8:B32 ?92 + ' J92BB2 .:53 59 3 < B3:930 2A.2<3 ' :4' 2+2 <:9E 3 5:98 3B2 E:B G+20 822550 ' ' ' " ' / ' 3: ' ' 9.. 8 E:B G+20 =29B29A 89.. 8' 25' ?92 + ' 5:9E2 93 ' 42 .2 . <B .2 25' 3 B2549 +2 89..28 8* 82M E:B G+2 <:9B 52 ; 2 B2<253 ' < 8 4&R E: B <2B49 ?92+?92 32 ; <80 '$, '2A 3525 LL' +28* 89B2 E:B G+20 G+2889B2 ?9' 5&283 < 8 4 5J2B2982 .:9< E:B G+2 0 .:9< ?9 0 8 58 3B2 4 5J2B29A0 ' <:B3 ' 4 58 95'+29' : 3 + 9B ; 3 <9' & 3B2 Q+:.93 :58 E 2 + 28/' LL 6 $9' 283 25' E29B 42 >& '952 4 2 E:B G+2 42 .2@2952 =: ; ; 2' B 82532B 952 .=:82 49 . 3 ' E:B G+2' $9 54 +28 32B ; 28 8:53 8 ' .+ B8 ?9& +8 =&25 8:9 B253 9.952 H 532B<B 3 3 :510 +:B8 5:98 5:98 82BE:58 42 + 'B2 ; B?92 428 . B :583 5* .28 E:B G+28 . ' / 'N' 28 3:+. 2580 ?9 '+29B 3 253 :<<:828 H 9A ' .9B@25810 .253B2 +28?92+8 8 53 9+ 4 8<93 ' 988 0 5& E 253 < 8 952 :< 5 :5 <+98 E:B G+2 '+ '4 E 5 320 <9 8?9#8 8 253 95 4 29 42 +29B 8 J2 23 ; ; 2 +2 <B 2B 253 ' +29B >9K < 32B0 G:88'O 'E50 / ' '>2 4:552 '828 4 8.:9B8 95'8258 < 58 E:B G+20 * ' ' 6 7 ' 0 " ' B 3 53 ' +29B8 9B29B8 428 .:9+29B8 E:B G+280 9U' & ' 50 ' '82 4 3 428 <2B8:5528 25' 55 8258 5 +:J92' 3 :980 <B 5.20 ?9 ' & E2M 3 3 =:5:B 2 <254 53 ?9&2+ +2 3 3 9' ; :542 ?9 0 E:B G+2 532B<B 32 42 828 ; : 54B28 4 8 B80 .:53 5928 E:3B2 <B:32.3 :5 23E:8 8: 58 '3:93 .2 ?9 '+9 ' + 3 .=2B0 ' & ' '2 B' ' '5' 82 4 3 42 .2B3 528 .=:828 <:9B 28?92+28 + ' B J929B 42 + '+: ' :9 42 &:< 5 :5 4: 3 3B2 ; 3 J 2' + '39 '95'=: ; ; 20 ; 8 + 3 3 33 ?9 0 8:5'. 8 283 E:B G+2 ' ('MO=,?0)+#' ' 0.*'0 ; &"'"(%'2"' ,!-' #*//"' $0."!'5'4'*4-2"' "(%' H++&*7-,!"+"/%'2"' ,!-'"(%'0!4' (' /"' *220(-*/'$0.*'0 ; &"'/*!('#*//"' $0.*!'5'!/"' *220(-*/'4'*4-2"' "(%'!/"' *220(-*/'4' @ ("/%"' "%' ,!!-&' e !$'(0-(-' ' "'+-/-(%'"' /*!('"(%'$0K .*'0 ; &"'-&'0'#"' &0' ; -"/.'-&&0/2"' 4*!"'/*!(5'-&'/*!(' "(%'4'*4-2"' -&'"(%'%*!%'4' %' '/*!('("'.-' - ' # 'O I' (' ! :9+3 +2 3 G 25' B B8 ?9 ' 82 B254 3 ; G+2 O 3B283:98 828 89GJ2M 23 '3:98 E:K B G+20 2 ' '< 'E' CN ' ' '*."/2' "%' "(407/' / 1 '4*'%!7' / / ' -%0&' / 1 ' #*' &0%-/' / 1 ' #"' ' $0."!' 0/(' 1":"+4&"'2-% ' ' 16-(%*'-,!" (20 #0&"' .*!('#".'<'2"'+"'("+ ; &"''"2".*-"'$0.*@ / 1 ' (-7/-$-"' ,!-' %'*!."' $0."!' ' !:' :.I'"%' O I'(- ; #"('*/' #-(0-%' / 1 ' '"/0/%'0!' 4-(' ."/-''(-&'0#."/%' ,!"' $*'%!/"' "!''(*-%'$0.*'-(0@ ; &" ' 9 ' ' + 'B 5' 0$0@ @'0@ ; &"@+0/E' ' !!/"' +0/-"'"' $0.*'0 ; &"' !-(,!!-&'/!8'0'4*-/%'#"' (20 #0&' .*!('#".'<'2"' +"'("+ ; &"''"2".*-"'$0.*@ '0 ; &"+"/%2"'2*++"/2"+"/%'#!0$&"2%-*/' .*% '= " ' *!('8'%'*!."'< U#0/(' (2* ; 0'J' /' ; "&'"+@ 4&"'#"'&0' +0/- '"' #!-/%"'4' %"' $0.*'0 ; &"+"4%'&"(' ; !&&"(' '0 /'M'Q!"&&"'+0',!"'#*//"'&"'H-/%@ (4'-%'#"'&0'9!(%-2"' "%'#"' !-//*2"/2"' 0 !/'6"++ ' #" ; -"/3' 2!"(%'#"' /!0.*-"' 40('"5!'$0.*'0 ; &"+"/%' !*44'* ; '"' "%'&0'+ #-(0/2"' 2"/%'"(' '("('$'"'(' ' 7 & - ' '%%"'#-.-/-% ' 2*!%0'$0.*'0 ; &"+"/%'("(*"!-' ' 9 ' : . + ' '0-+"/%'9"'(!-(' 260'+ ' ,!"' '*&&-*/'#"' &0' *4 -/- '"4"/(' !/'4'!'$0.*'0K ; &"+"/%'#"' + *-5' 21"(%' '#"'%"(' &'2"%' ! '(' ,!"'9!*$$'" +"(' 2'-%('9 '=' 9 ' '("4%' "C % - ' # 0 A ; 6 8' B 3 53 28394 2B253 <:9B 5:83B2 2582 J52 ; 2530 $9025' 4: 3 +29B8 ; :M J+:82B ; :9+3 E:B G+2 ; 2530n' " ' #' ' 9 'F 'LLAE 6 a' 5' .:5B3 8 5 52 <29+3 E: B 5R + :'5R E:+:53 ' 42 4 B2 23 <2582B ?92 E:B G+2 ; 253 4&95 ; 83B2 ?9 0 < B ; '3 53 42 ; ++ 2B8 4& 93B28 89G@2.380 & '.=: ; 8' <:9B +2 5:9BB B 23 28+2E2B 42 8 ' ; 50 ' 0 NC' 3G 8 J2882 =9 ; 52 .3 E:B G+2 ; 253 23 5498*

3B 2982 ; 253 4&2 ; <+:R2B 828 B3 .28 ' 5:98 <2 5* 4B2 23 B42B +28 ; 9A0023 25' ++2J28 +2 8253 ; 253 S ' ' A - ' (!' - / 1 '23 +2 89 A2 0 & ' Q *E *B 0 B *3&/0 " ; ' LL 6 $9' 2a3 &:G@23 4&952 E29B < B3 .9+ B2' B:3 J2M 4 8:B* ; 8 +2 + EB2 E:B' B ?9 '@&:82 28< B2B 952 82* .:542 E 20 ' ' '5 ' " (' 'H 2BB2 +2 B 541 B2.2E 3 .28 =:5529B8 4 58 8 'E +2 K E:B 320 25' 95'+29' : ' 4 A 58 9< B E 53 + 5&R E 3< 8 952 . G 520 23 : + + E: R 3 +:B8 3B2532* ?9 3B2 ; ++2 . 5? .2538 ; 8:580 9 '1& # ' A' +93 B?92 42E 53 ; ' +2.39B2 E:B 320 ' ' :88' 1!- ' ' LL 6 @' '23 ' 2+9 0 .2++2 ?9' 283 &:G@23 4&952 <B 4 +2.3 :5 =8G 392++2' 23 .* 329B 283 +2 E:B' 49 <9G+ .' 52 .3B .2 ?9 '283 + ' E:B 32 49 <9G+ .' 2 .=2E 4'?92 @2 ; :532 = G 394* +2 ; 253 283 ; :5' E:B 'LL ' B3 .9+ 4LL ; 2530 .2+9 0 .2++2 ?9 '3 253 +2 <B2 ; 2B B 5J 4 58 ' E29B0 +28 G:5528 J. . ' 4&952 <2B8:552 25' .B 4 3' $92 .2 8: 3 :3B2 <2:<+2 ?9 '8: 3 E:3B2 E:B .23 E 8 93 4:55 ' 93B2 : 8 ' :5' JB 54 <B 5.20 N' ' ' ("7#' 6" (' + 283 +2 E:B' 42 &2 ; <2B29.' .20 '0! ' 0 " ' 2 <+98 .=2 ' E:B'5 e 'B 25'?9&:5' <29' 42 G:920 'D 'E0 ' &=9 ; G+2 3: 3 283 2A2 ; <3 4&95 3B G93 8' 952832 H+28 8:9. 8 42 & ; G * 3 :5I ' 2 8 J2 'E 3 25' < + 23 ; <B 82 +2 328322 :53253 42 828 4:9.29B80 2BB 53 < B: ' +2 ' G: 80 + B2J B42 '828 < 248 + 8 E:B 8 428 B: 80 ' '0& ' ' , 3 ; :B3 + 3 ' <B:4 J 2982 428 :9EB 2B8 H4 58 +28 3B E 9A42 2B8 ++2810 4:53 :5' B2 ; <:B32 3:9328+2859 380 .: ; 2 42 &= 32+* 290 428 = B 23328 <+2 528 42 ; :B38 :5' . .=2 .2332 3B 832 ; B =2 <:9B 52< 8 2 B R2B+28 32+ 2B8 23 <:9B 52< 8 4 .B 2B & B 42 .2 E:B' 8 58 ; B 32 :98 8 2M .2 G:5' ; :3 89B 2B8 ++280 8 E' "' :23' "NCF' 2 E:B'5' '<: 53 42 89 32 + 283 8 58 25J J2 ; 2538 23 8 58 + 8:58 + <253 3B2 253:9B '42 < B2538 23 42 .B 39B280 ; 8 + 5&R 3 253 < 8' + 283 4 3 .= '42 3:93 23 .: ; ; 2 8: 0 ' 35B'S' :932 & BB:J 5.2 42 .2 E:B' 3: ; G '.: ; ; 2 95 B::=2B ?9 '82 4 3 .G2 49 8: ; ; 23 4&952 ; :53 J520) '9 ' E' :3B2 .: ; < B2 +2 <B E 3 B 83 50 E:3B2 ; 42. ' : 3 2B0 E:3B2 G B* G 2B + E 2B +2 4 G+2 3 253 E:8 :B8 23 E:8 ; * 5 83B280 " ' ! ' ' ' ' = , '$$' ' ' , ' $92+?92 : 8 _E:B'2 ; <:B32 4 2 42 <9 88 5.2 ?92G ?92 : 8 829+2 ; 253 + 8 J5 2 95' =: ; ; 2 ?9 '<+ 3 ' 8:5' ; 33B20 9 ' ! ' " ' - / ' 2 B: 0 ?9' +2 <+ J5 3 8 58 +2 2:54 ; 52B H+2 ; B .= + 42 +* +2B: I0 BB 3 '?9&:5' G+ ; 3 8'= 932 ; 253 8:5' .=: A0 8& .= << ' ' 4 B2' 5 82 4 .= 52 .253B2 +9 0 < B.2 ?9& + 283 ; :5' 3E:B 32B ; 2 4:53 + 52 82 82BE 3 > K ; 8 <:9B <2B8:552 ?92 .2332 829+2 : 8 25 8 'E 20 F = B 3' B' +&:54 E: +2 + E 2 53 B 29B2 42B8 E:B 3280 :5' 9B '< '4&95' 3 3 8 '25E 0 6" ' ' ' ' ' ' >, / '3'E 0 <' " 0 4 58 ' 2 ; B .='H 288 2B281 42E 3 8:5' + E 3 :5 '4&=:5:* B G+28 82BE .28 23 ' 2.3 :5 42 2 ; <2B29B0 ?9 '8& * 3 3 33 .= ' ' +9' .: ; ; 2 '8 '.B 3 :5 + 283 EB ' ?9&:5' 52 <:9E 3 3B2 E:B' 42 <:+ :5' .: ; ; 2 4&95' 93B2 ; <5 B?920 ?9& + ++ 3 49 ; : 58 & E: B 89 E 0 +9' 3B2 42 ?92+?92 93 + 3 . B + 8 .B 3<29 ' & JB G+20 8# ' '< " ' A0 B' '"' J' 28 E:B 8 42 + ' :B3952' 5' <<2+ +2 +28 G:58 <:2328 +28 :B 8 428 ! 98280 .: ; ; 2 +28 J258 =29B29A +28 E:B 8 42 + ' :B39520 < B.2 ?9 '8&:5 89<<:82 ?92 +28 958 23 +28 93B28 :53 / ' * ' '8 58 3B E +0 ' ! ' ") ' - / ' / ' LL E:B' 42 ! B80 J92BB 2B =29B29A' = ?92 .+ ; 3 <B:49.3 428 b E:B 8 42 ! B80 ' " ' 0 LL E:B' 4& <:++:50 <: 32 2A.2+ +253' <+50 +2 E:B' 4& <:++:5 23 428 ! 98280 0) ' # ' A' ' ; :58 29B E:3B2 <2B2 283 +2 E B' 4& 8.9+ <20 E:98 & 328 4& <:++:5 .&283 952 ; + 2 <: ; ' ?9' @2 ; 2 9 8 3:9@:9B8 8253 ' :5' <B: :54 B28<2.3 25' ? + 3 ' 42 <: 32 23 42 ; + 420 ' = ' # * ' ' % EB + 'CNN' LL %0 ' ' E:B 0 3:9 2 42 G 3=2 ?9 '25. 4B2 +28 @:528' 5' 4 3 988 'G BG .=28' LL N]' # ' ' E:B 320 5: ; ' 4:55 '<254 53 ?92+?928 55 28 '952 28< .2 42 E: 39B2 : ; 5 G98 ' B 8 - ' # 'O I 8' '<+98 E:B 2 4 ; 2 42 8 '.: X' ? ' 0 "" ' >2 52 8: 8 GB28.=2 ' .2332 G:9B82 E:B 2 ?92 9" 325: 8 ' < B30 5' 0 N0 &283: 3 +2 B2 B 5 23 +2 ; :3 E: R 42 :.B 3280 5' 50 AA ' ' B30 < 882 42 & 5. 25 E2BG2 / ' 4:552B E29B B !:R ? ' R E:BR 4&?8<B 30 42 8258 23 4& ; 20 ' ' ' 0 < ' "C@ 4 58 0 Q *E:*B *M 0 M 2/0 " ' " ' 9' ' B2?+' 2E29B' 42' E:B 8 ' < B +28 ' .B. :5*0 83 5.28' ' 49 82.:9B8 49 32 ; <8 ; ' : ' B:B 822 :93 ; B 32B ?9&95 @:9B E:98 :9G 2M G 8 20 #' ' & 'E0 M' : 3 ?92 + ' .:5E2B8 :5 42 .28

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A

; 28' 93B2 : 8'8' R:58228' 89B< 882' 3:932' + ' ; 2*
8932' 428' 4:58' :B4 5 B20 23' 42 ; 5420 <:9B' 58'
< B+2B0 +2' 42B5 2B' 2 :B3' 42' + ' <9 88 5.2' 4 E 52 '
'?-- ' 42' H!-B
'Q *E:*B *M2/0 5' ' LL +] :552B *
E29B0 42' :83' ! B3 5' 25' +9 ' ?92' E:98' E:B 8:M0
' #4B:. ' 'q' &283' 3B:< E:B 82B' 95' 3RB 5' ?9'
; &:93B J20 7' , C ' 0 ' 38' ; 25 253' E2.'29M
<:9B' J B 53' 42' +29B' < B:+2' = B:<80 +2' <B2 ; 2B' 23' +2'
<+98' .:58 42B G+2' 428' c< B:3280 ?9' E:B 8 3' 82.BG*
32 ; 253' +28' : ; 580 6' ' !- ' 8<75'
3' E5 0 4 58' 'c+2' ' E:B 84' 8:5' 58:+2532'
94 .20 '@* #' 7 ' " ' 2+' ' 42' 8:5' 42' 258298
E:B 82M +28' B ; 280 ' , ! - #' 9 0 C' 2' B:' 42'
B 5.20 <'B2' 42' 8:5' <29<+2' 23' =:55432' = : ; 2'
.=2M +9 0 \E:B 8 3' 25' 3 + 2' .28' .B ; 28' ?9&+' 9B 3'
<95 8' 4 58' 8:5' B:R 9 ; 20 ' K! 7# ' 3+" ' LL G8:+9*
; 253' :L" 4:552B' ; 28' G 2580 @0 ; 2' E:*
B 82B0 ! 8 @2' E29A' # ; 5' 3:9B' ?9&:5' ; & ; 2' 23'
?9&:5' ; 2' 82BE20 ' - '7 ' L+ ' B 3 +2B
?92+?9&95' 4&3 ; 2' .=:820 + ' +9 ' ..:B42B ' ' +5 3' < B'
; 2' E:B 82B' 42' 8 ' <B:32.3 :5' + 28' H428<258428'
42' + ' ; :B3I' ; 2' <+:5J4B253' 4 58' 952' B2$2A :5' 84*
' B 29820 ?9&+' ++ 3' . : ; < B 3B2' 42E 53' 290 23' +9'
B254B2' . : ; <32' 49' 3 +253' 4:53' +' ; & E 3' E:B 840
' ' ; 9' 9' ! ' ? B - " # ' ' >& ' E9' K
E:B 82B' 42' E:3B2' .:5 5.2 ' 7' D# ' E0 ' @ J'
' 5 39B2' & ' E:B 840 52' D ' < 8' E:B 84' 42' 828'
4:580 ' 0 +' 5& ' < 8' 25&< B3 J:' 428' E 53 J28' 5 *
39B2+80 8: 3' 9' <=R8 ?920 8: 3' 9' ; :B + ' LL 5' +2' 4 3'
49' 2+' 4 58' +2' ; 4 ; 2' 8258' :GB2' < 3420 4:53' + '
32BB2' 5&283' < 8' E:B 842' 49' . 2+0 > ' , 8 ' : : -'
' c3B2' .:5 :B ; 2' 9A' 448 B80 82.:542B' +28' 428*
82 98' 25' < B+ 93' 428' .=:828' 2332' <:B32' 82.B232' .'
5:98' E:B 820 ' ' (! ' E0 %' +' 3' . ' +2' <+98'
G2 9' 32 ; <8' 49' ; :542F + ' . ; < J52' 5&283' <: 53'
25.:B2' B29820 +28' .= 8829B8' :93' 434' E:B 848' 42'
8 53' #9G2B30 84E' ' 5 :E' -BA ' 2' + 29' +2' E:B 820
23' @2' E:98' R' B23 258' :9B' +9 ' . + 32B' 42' 8' 4:9A'
253 23 2580 7' D# ' A 0 2' L' " ' 42B' ' .:53B G92B
4' E:B 82B' + ' + .25.2' E:B 82B' +2' 42E2+:<<2 ; 253'
4&952' 54983B 2' LL% ' 2' E:B 82B0 5 ' # ' : ' <B432B
E29B0 82.:9 8' &95' =' & 93B2' +8' H :B ' 23' 3G2*
B:98821' 8& 4 253' 23' 82' E:B 8 253' 4 58' + ' .:53 K
59 3 :5' 42' + ' J92BB20 ?9' 43' 3 +29B' ; 43 2B' 23' +29B'
B80 N' ' ' .:33B0 %6 " (
- ' # ' !J8' ' ' 3259' 23' 3 253' +2' < B3R' 428'
4 238' 4& B+2 58' 23' +29B8' . : ; <+ .280 +28' ' 4 2M0
.:58 ++ 2M0 8:98+2598' 23' E:B 82M0 + # ' " ' . : [8*
! - ' " ' A ' 4 58' 1&#' ' " ' ' 7 ' '
< ' C" ' ' ! J 8' 2' 42+' 23' & 2B' 82 ; G+2B253' E:B 82B'
' + ' 28320 ' '@ (! & ' ' .3' 3 93' 42'
JB .28' 9' B:R0 ?92' @ ; 8' 52' 293' <+98' 42' G28: 5J'
42' E:B 82B' 9A' <:2328' ?92' ; 5325 530 5' ?92'
3 53' 42' .=:8:8' 52' 8: 253' ; 82825' :9G+R0 # 2' +
" ' ' ' E29 ++2' E:B 82B' E:83B2' G:5' E:9+: B0 '
' Q4" ' >2' 52' .B: 8' < 8' ?92' 29' E:B 8 83' 952' 8 '
5@9832' 253.2<B 5820 ' ' : : ' ' :B3952' +9R'
EV# 8' 25' .2' . : ; G 30 ' ' Q - '
' , ' D:929B' 5' B2 ; B?92B ' 4 58' &= 83:*
B ?92' ?92' 5!# #' 283' < B : 8' 2 ; <+:R4' . : ; ; 2'
E2BG2' 5293B2' E2.' + ' <B4<:8 3 :5' 4
3' ; ! ' Q *E:*B *3 *8 ; &/0 ' ' 4:+:*
J 8 ; 2' 4J520 4: ; 5 3 :50 5 +925.2' 428' E:B 8
- ' ; ' 5!#
3' ' Q *E98&/0 ' ' : ; ' 4:554' 9A' .B:4328'
42' + ' 32 J52' + E29820 5' E98' 28' E98
' , " ' 3' # ' B R:5' 42' ; 2+0 =' . 982'
4&952' .2B3 52' B2882 ; G+ 5.20
(' Q 2/0 ' ' E 8 :5' 4&95' G+: .' 4& B4: 82'
'F#U , ' Q * B/0 W ' ; ' 3 5' 428' 5: ; 8' E9+J B28'
49' = 33B2
'? ' B ' +98 29B8' E2BB 2B8' 42' .29 ' ?9'
:53' +28' E2BB28' 42' E 3B28' 82' 82BE253' 42' + ' .254B2' 42'
G: 8' 42' R 5' 25' + 29' 42' 8 + .:B0
' ' :B ; 2' 44B E42' 49' + 3' / '&J # 'QE:R'
<:9B3 53' G
(0 (0 (0 E:R'
* ' 23.
3' (' Q * :P' &> 52' 82' <B:5:5.2' < 8/0 ' '
32B ; 8' 42' ; B 52' : ; ' 428' = ..:38' 82.8' 4 83B G928'
4' =2B4' 2' R:+' G+ 5.' 283' <+98' <23 3' ?92' +2' B:9J2'
/ $9 54' 4:9G+2B:58*5:98' +2' . <' R:+^' <+ 8 532B 2'
428' ; 3 58' <:9B' 4 82' ?9 54' .2882B:58*5:98' 4&25'
43B2' B249 38' 9A' = B .:38' <:9B' 3:93' 4J9 ; 2^
'3 ' +32B 3 :5' 42' !
J ' Q :* *@&/0 ' ' 2B ; 2' 42' @9B 8<B9425.2'
4:4 +2' :53B 3' 4& 5 2:4 3 :5' 3259B2' 25' 2
- ' # ' !J8' : ; ; 2' 29' 9 ++ 9 ; 2' 92B ; :53'
25' 8:5' E E 53' 83' 82 J529B' 4&95' <23 3' 2 J2 '
' 7 7 ' 7 ' LL AE 6' 8' J2' 283' <B 8' ; <B4*
<B2 ; 253' <29B' 952' ' :82' 5 2:422' :9' <:9B' 95' =2B *
U J2 3259' 25' 2 P' . B' :2' ; :3' 8 J5 2' <B:<B2 ; 253

95' .:53B 3' 4& 5 2:4 3 :50 'H ! ' "7' "#! '
8# - /
'? 6' 8*+ 3' ! " / 7 ' 42' ! "7 ' 7"7
2 'QE:R' .2' ; :3/' E' 6
F #@' 'H 2* +0 * &/0 " ; ' LL ' 29A' ; :3' ?9'
23 3' 98 32' 4 58' +28' +233B28' B:R '8' 42+2' ' 5:8'
; 28' 23' 4 9A' .:582 ++2B80 23. ' :+ 540 9J928.+ 50
R B40 23 253' 42' 2 9A' .=2E + 2B80 '
45320 0 50 ' LL ' ; + 2B2 ; 253' D283' ; :5' 2 +0
8:5' 2 +0 ; :5' ; ' 42E:920 8:5' . : ; < J5:5' 4 2'
&283' + 0 ; :5' 4 +0 ?92' E:98' +9 ' @9B2B2M ' 23'
+:R 9340 @ ' @ ' ' C ' +0 N
- ' # ' S 6 8' 2' .B: B2' E:+2M ; :5' . :582 +0 $92'
@2' E:98' 4: 5J' G:5' 23' 2 +0 D -(6 -" - ' ; 8' 42'
3* 2B ; ' ' 8:0 4 58' 2A' =:B5' H>4898*
GB 83' 29' 23' = : ; ; 2I' B' ?9 '39 3' + ' 2+' 9B:53'
B242 ; <3 :50 0 ' "7' ; 7 ' ' " 7' (&# - ' ; 8' 42
! +2B ; 50 C04 58 ' LLAE68 ! 8?92
+' H 4:9 B4' # I' <B 3' G:5' .:582 +' 23' 8 J2' 253' :9B' +9 ' 23'
2 ' 0 ' : 88' 00 0 N' ' O I' 8' + 8 532' 53 8 2'
<+98 29B8' .=:828' ?92' @2' 52' E:9+4B: 8' 4 B2' ' <2B8:5520
@2' +28' 4 8' 9' <29<+2P' 23' 893' ; 28' <+98' 82.B2328'
8. 25.28' :9' <2584280 B25E:R2' ' 952' G:93 ?92' 42'
+ GB B2' ; 28' ; 8' +28' <+98' 2 9A0 ' ' ' %
' , 6' 2 +' :9' (22 0 5. 2552' :B ; 2' 49' ; :3
?9 ' 283' 9@:9B4&G9 ' [342 2
b0 BB 'Q34*4*32/08' ' 2B ; 2' 42' 4:4 + 34' 23' 42'
.=2E +2B 2' 42 34' 2B ; 253' 42' 4 934' 23' G: ; ; J2
' ' ' 7 ' 82' 3B:9E2' 3B48* B2?92 ; ; 253'
4 58' +28' 5. 258' 32A328 0 23' R' 8 J5 2' "
BB 0 ' Q 4*GB *8 *3 530 3 5*3&/0
" ; ' ' ' 2B ; 2' 42' ; 442. 52' $9' ' + ' 4EB2'
' 6' 9G83 53 E2 ; 253' 52' 4GB .3 532' 58' +28'
4GB .3 5380 +' 5&283' B 25' ?9 ' 52' <2.=2P' 2' < + 8'
82' 5: B. 3' 23' + ' + 5J92' 82' 8 2.=20 ' ' U7 -N
=7 - ' ' ' . ' :5' <<2 +2' H>4898* =B 83I<:9B' B254B2'
+ 8 534 95 4GB .3 530 9A88' 1 a# ' , C #'
- ' # ' S D8' 5' 2GB .3 53' 428 B2' 3 53' G: B2'
2 90 ?92' G 25' +9 ' 82 ; G+2' ?9&+' G: B: 3' 95' 82 9' 4&2 9'
:9' 429A0 0 4 58' +2' ' " ' 6 ; ' LLAEB' 8'
' + ' 2 ; ; 2' 283: 3' 2GB .3 5320 '1 9 'D:
' ' B:E25^0 23' 28< J' &# #3' 3 + ' &)'
(A # 3' 49' + 3' 6a# # ' 42' # ' 4EB2
3' ' Q 4*GB *\9* &/0 ' ' 2B ; 2' 42' ; 4K
42. 52' 23 32' 2EB2P' 2EB2' =2.3 ?92' 4J4B2
' ' 3' # 7 ' 4 ; 593 ' 4:' # '
2EB2
c ' Q 4*GB * 9*@&/ ' 6 ? " ; ' 2B ; 2' 42' ; 4K
42. 52' $9' . ; G 30 ?9 ' J94B 3' +28' 2EB28' 4& .248'
' 829+2' < B3 2' <B4. 2982' H49' ?9 5?9 5 I' 283' 8:5'
4.:B.20 .:5592' < B' 8 ' E2B39' 2GB 9J20 23' 4' + ?92++2'
:5' 52' 4:552' 4& 93B2' <B4< B 3 5' ?92' 42' + ' B2'
84.=2B0 6 ' K ' & ' E 0 ' LL ' @ ' ' 5' 4*
GB 9J2' ' .253 9B42' 25' ?9 ' +2' 42+' ' ; 8' $92+?92'
4<B2340 ?92+?92' :B.2' 83B 5J2532' :5' 4&95' 32+' <B A'
5 ' 42' & 93B2' <<B:.= 532' H49' ?9 5?9 5 I0 ! 8' ?92+*
?92 : 8' 4GB 9J2' .2B3 50 ' U7 -=7 - '
- ' (! ' 3' K- ' 4EB20 23' 7/ # ' ; 233B2'
25' 9 32
, ' Q 4*GB * &/0 " ; ' LL ' 2B ; 2' 42' ; 442K
. 52' $9 ' 3 253' 4' + ' 4EB20 ?9 ' 283' 42' + ' 5 39B2' 42' + '
4EB2' 5' ; :9E2 ; 253' 4GB +2' :9+8' 4GB +2' L/ ' J'
52' B429B' 4GB +20 952' B429B' 2A.288 E20 ?9 ' J 32'
. : ; ; 2' + ' 4EB2
- ' # ' S 6 8' 2' ; 28.= 53' =9 ; 29B' +32B2' 23'
<:9BB 3' +28' :80 23' B254' +28' < 9EB28' 28.B:92+29A' 2*
GB +280 ' + ' %S
' B:E25^0 23' 28< J5' [2G5+P' 3 + ')'
A 3' 49' + 3' # ' 42' # ' 4EB2
0 ' Q 4*\ +0 \ * /0 " ; ' $9 ' 4<< B3 253'
9A' JB:8' 2A2B4 ; 2538' 42' D=: ; ; 2' 23' 428' 5 ; 9A'
48 4 8' 4. 9A' 5' :B ; 2' 428' 25JB 8' 2A.2+2538'
E2.' +28' ; 3 4B28' 4. +28' 3 53' 42' &=: ; ; 2' ?92' 42'
<+9 29B8' 5 5 9A
- ' # ' S 6 8' ++2' @233: 3' 828' 2A.B2 ; 258' 2. 9A'
< B' 9+.2B20 . ' A@A0 8
' ' 3' A ' 42' B ' + 2
j' + ' Q 4*\ *+ :* *4&/0 4@' 2B ; 2' 42' ; 4K
42. 52' : ; 882 ; 2538' 4. +:+4280 .29A' ?9 0 4 58'
+28' =235 28' 23' 4 58' +28' : . . +98 :58' 53283 5 +2' ' 8:53'
:B ; 48' 42' ; 3 4B28' R 53' &:429B' 428' ; 3 4B28' 4*
. +280 8 58' 25' E: B' + ' .:58 8325.2' 5 ' +28' 93B28' . *
B 234B28
' 6 ' 23' 8 :.0 << B25.2
' Q 4*848&/0A ' ' < ' 6' 2B ; 2' 42' .= ; 2230
42' <= B ; . 2' 44 ; 253' :B ; 4' < B' 3:932' 28<422' 42"
+ ?929B' LL 'D 2B ; 2' 42' ; 442. 52' R5:5R ; 2' 4&2A*
2B4 ; 25380 42' 5+ 3 4B2' 4. +2
- ' # ' S 6 8' &=9 ; 29B' ; 2+ 5.=:+ ?92' 283'
. : ; ; 2' + ' +R2' 23' 2.2' 49' 8 5J0 ' - # 'N
' 0#! # ' ' B3' !# ' 3' ' BB ' + 2
3' 6 ' Q 4*.=4* &/0 ' :B3242' <23 32' .+ 2
<:9B' _ B2' 4J:9332B' ?92+?92' ; :82' :82M + ' ; :9882

f' 'U'
42' A' GB4 ; 2' 89B' + 52' ; :9882+ 52' :9#342' ' 2' 3: 8'
9B2M <+ .42' 4& E 5.2' 89B' 952' 4.=2+2' ' I' b' 6I
- ' (! ' 3' (' 4 ; 593 ' 42' @0 . e0 < *' 6b
5 2B' QE:@ ' @' b0 ^L ' 6
' Q 4*8 * +/0 ' 9 ' 40 53 ?9 34' B?*
; 452' ! : ; ' 4:5524' 428' < 3B28' 2'>9< 32B' ' 6
+ ?920 583 3948' 4' : ; 20 89 E 53' '3B 4 3 :50 < '
9 ; ' :9' < B' 5.98' ! B3 5803< ' @: ' 253' 95' ' 54'
B4+2' 4 58' +28' B <<:B38' 5325 ; 3 :549A' 23' 4 ; 8
.:5.+98 :5' 428' 3B 348' 42' < A' D43 253' 29A' ?9 0
4 58' +28' ?92B2+28' ?92' : ; 2' E +' E2.' 828' E: 8 5' 0
43 253' 4& G:B4' 25E:R48' <:9B' 42 ; 542B' 8 3 8 .3 :50 "
23' <9 80 25' . 8' 42' B2 980 44.+ B 253' + ' J92BB20 ' "
:B8?9&+' 8& J 3' 42' 44.+ B2B' + ' J92BBB2' 4' = + <<2' '3'
4' 53 : .=980 :5' .:589 3' +28' 4. 9A' <:9B' 8 R: B'
8& +' 4++ 3' + ' +29B' 425:5.2B' ' 29A* ; 4 ; 28' 25' <2B* 6
8:5 20 :9' 8& +' 89 B 3' 42' +2' + B2' 4' ' <B2 ; 4BG'
<+ .2' 42' +29B' :G4 88 5.20 ' ' ' >F#'
3' O ' I' < B3' < ' Y ' 4 58' 'M0& 6' $9 ' 04 '
< B3 253' 9A' 4. 9A' 2' 4B: 3' 2. +' D
- ' 'O I' 8' 2. +' <B283B2' 283: 253' .2B3 58<B2 4'
3B28' 8:+2 ; <52+M ?9 ' 283: 253' < B' 28<2. +' :B4252M 4'
2B2' 23' 2B ; 2B' +28' + 5.280 6 ' . ' $ ' 5 # !
- ' (! ' 3' ' :9' BB: 5' +2' 0B 33
3 .=2' 4' ' ; 80 <= + :+:J ?92 ; 2530 .2+ 283' 4 K
. +2' 4' 4 ; 233B2' &']
0 ' Q 4*\ :50 \ :5*4&P' +2' 4' 82' + 2' 2'
82' <B:5:5.2' . : ; ; 2' 95' Q 6' 95' 4*\ :5*3' 4.B E 5P
9<+9B 2+0 &8082' 2 42' 2*\ :5*M' 4:B E 58/0 6'
6' B:<B2' 4' + ' B2<B:49.3 :50 ?9 ' <253' <B:439BG
G2 9.:9<' 28' 54JB28828' 8:53' :B3' 4.:5428' 23'
..:9.=253' E2.' G2 9.:9<' 42' 4. + 34' 23' 8 58' 9*
.95' 82.:9B80 ' ' ' ' :>, / ' 3' E@
<' Y ' 4 58' ' 5' <253' 4 B2' 25' J454B +' ?92'
+28' JB 548' 5 ; 9A' 8:53' ; : 58' 4.:548' ?92' +28' <2"
3 38' ' G +2 520 4+4<= 530 +2' B= 5:24B:80 +2' .= 0"
; 2 90 +2' G:25 0 +2.=2E +0 &=: ; ; 20 23.0 52' <B:49 *
8253' ?9&95' 25398' 23' 3B48*B B2 ; 253' 429A0 " '
' .= < ') 'NN .2' 4.:5420 B .2' 4& 5 ; 9A' ?9 '
82' 3B2 ; B?92B' 4 58' 2' 4.2' < B' 8:5' G:54 532'
; 9+3 <+ . 3 :5' LL + 532' 4.:5420 < 532' ?9 ' <B:49 /
G2 9.:9<' HL +29B' 4.:5480 +29B' ?9 ' 4:552' 49' B9 30
H3Vc9 ' 4.:540 :29' 4:53' +2' J2B ; 2' '434' 4.:5440
@ ' $9 ' <B:49 3' G:54 ; ; 2530 25' < B+ 53' 42' <
32BB2' :9' 42' .2' ?9 ' 283' . : ; < B4' \ ' + ' 32BB2' 2 '
Q' ; <8' 4.:548' 28' 325* 8' 4.:5428' LH :9B.2' 4K
.:5420 8:9B.2' ?9 ' 4:552' 42' 2 9' G:54 ; ; 253'
' ! 52' 4.:5420 ; 52' 4:53' +28' +:58' 8253' 3B48*<B?B'
49.3 +G' ' J' :9B.2' 4.:5420 ; 52' 4.:5420 .2' ? @'
<B:49 3' G:54 ; ; 253' &283' 952' 8:9B.2' 4.:542'
4&2BB29B8' 52' ; 52' 4.:542' 42' G2 9348' 42' 83R+2
' B' 2A3258 :5' ! 80 ; +JB2 ; : 0 42' E:3B2' ; :542'
' E:+9<34' .= B ; 2' +28' 9AP' 3' 42' + ' 5 39B2' 4P*
.:542' D BGB2' ; ; 2582' 43254828' B ; 2 9A0 #
' , ' LL ' J' 82' 4 342' 3:93' .2' ?9 0 < B' . : ; 2'
< B 8:5' \' + ' 32BB20 <B:49 3' G:54 ; ; 253' :5' 82 5'
H42' : ; 2I' 4.:54' 25' J+:B 29A' 2A<+: 38' B:49 3' 428'
. 3:R258' <+98' <9 88 538?9242 8' B: ; 0 ! ! 1 - - ; ' /6
' 3' 8:B3' 4&952' ; 8:5' 8' 4.:542' 25' J92BB 2B8'
$9& +8' R' <B255253' 5 88 5.2' 9' ; + 29' 428' + 9B 2B80
5 ' 1 " ' 0 " ' 3' B2542' 5:3B2' 8< J52' 25' + 9B 2B8' 8'
4.:5420 5' @ # !# 7 ' 5' ' ' ++2' H+ ' 5 3 :5' 4&+8B 2+@
' 434' 4.:542' 25' 4:+28' 93 53' ?92' + ' 32BB2' ' 43L'
2B3 +20 ' D ' C ' A0 " ' 5' 5: ; ' ?9 ' @ ' 0
=:5529B' \' \' B 5.20 25' J+ 548' 5: ; 8' <+98' 4.:542' ' 0
$9& 9.95' .+ ; 3' 42' &95 E2B80 ' ' : +0 A0 R'
8' 4 8253' 4 58' +29@B .:29B' ' +' 5&R' ' < 8' 42' 2 ' 6' 6
+8' E:94B 253' <:9 (:B' B443+ B2' 9' 54 53' .2332' 8:9B?2' I
4.:542' 42' &43B20 ' # ' K" ' " ' #) ' '
5 #' 4' ! - ' 7 ' " ' ' 5 39B2' 42' 29' 283' A)'
.:5420 82 ' ; :9B' 23' 8 ' 2G B 34' 283' 588 P' @2' 4 8'
?92' 8 ' 5 39B2' 283' 4.:542P' 23' .&283' 2+@2' ?9 ' 4:552' ',
.2' +8' 432 ; 2+0 ?9 ' 283' 8:5' ; J2' E E 532P' ; 800*
8 ' 4.:54 34' 5 39B4+2' ' 3' 5 ; 3B2' 22' 4 E+5' +8'
4 58' &432 ; 340 8:5' ; :9B' +9 ' 25' 4:552' 4& 93B2 00
?9&+' 4:<32' 3:98' +28' @:9B8' 4 58' +2' 32 ; <80 5' @) ' 6b
' " ' , ' ' ' = ' 2' 8 ' +2' 283' 4+' "
.:54' 25' =29B29A' 34 ; 2B B280 ' >" ' ' $9&25' 54)]'
G+28' 8253 ; 2538' +' 8: 3' 3:5@:9B8' 4.:540 5' & ' " 0
' 9A' 32 ; <8' +28' <+98' 4.:548' 25' =BR5480 25 ' "
+98' 4952' 454+:<2' =:5:B ' 8:5' < R0 ; ' @ ' A2
>2' 5 9BB 8' 4 58' ; :5' .:29B ' 82 ; 25.2' 4.:542' 2 '
E2B398' 4:53' ' 4: 3' 8 5.3 2B' +2' ; :5420 , 7' < K *'
#! ' 4.:542' 25' JB4 ; 2538' 4 E2B80 'B .G2' .3 :5T'
283 +2' .= B ; 2' 428' E2B80 ' ' K / ' E ' '
@:9B3B:<' 4.:54' 25' ; B .+28' HC # ' / '
' <:48 2' + ' <+98' 4+4J 532' 23' + ' <+98' . +2' H.2+2' 42'
B :8320 ?9 ' : ; 2' 8 58' 2 :B3' + ' <+98' 4. 54:' +5 B" 6
J 5 3 :5' 4:53' + ' 5 39B2' 3' @ ; 8' 3' <B48253'
\' 9.95' = : ; ; 20 ' = 'A ' , ' ! " ' "7 '
: .3' "C%7' ' 59 3' ' 434' 4.:542' 25' 4E452 ; 25380
3T&BC & * 'A ' ; 0 L B 5. <2' 4.:5400
<B+5. :2' 4:53' :5' 4449 3' :5' JB 54' 5: ; G32' 42' .2 ; *

' ' ' @#!J0 ' B ' R

VN "

+ 2 5 2 2 8 ' ⅬⅬ 9@23⁄ ; 39B2' 2.:548⁄ 89@23⁄ ; 3 _B2'
?9 ' <B432' G2 9.:9<' "B ; J 5 3 :5' 42' & B3 832⁄ 49'
<: 32' ' 5' 4 3' 42' ; 4 ; 2' 28<B 3' '.:54⁄ ; J 5 3 :5'
Q4.:542' ⅬⅬ 9329B' 4.:54⁄ 9329B' ?9 ' 'G2 9.:9<'
4.B 3' ' _' 2.:54 53' 28'<+9 28' 4.:5428' 28' 2 9A'
2.:5428' 49' +' :+2 +' 4:53' + ' +9 ; 'B2' 23' + ' .= *'
+29B' 4.:542' :53' &:2 +⁄ & ; 2⁄ + ' B J+2' 23' + '8<+25*'
429B' 49' ; :542⁄ " " ' ? 7 ' '
- ' 8 ; ' .: ⁄ ' 3R ; :+:J ?92 ; 253')'
.:54' 283' .2' ?9 ' 25J254B2⁄ 4:552' + ' 5 88 5.2⁄ ' + '
E2B39' 4&25J254B2B⁄ 42' 4:552B' + ' 5 88 5.2' 2B3 +2
b283' .2' ?9 ' <:B32⁄ 23⁄ . ⁄ .2' ?9 ' <:B32' ; : 88:5⁄ <B:K
49.3 :5⁄ 23.' 5' : 3' 4:52' ?92' :5' <293' 4 B2' 8 58'
59 5.2' G 25' 8258 G+2' 952' 32BB2' 2.:542⁄ 23' 952' 32BB2'
2B3 +2⁄ ; 8' :5' 4 B ' 952' E2B39' 2.:542' 23' 5:5' 952'
E2B ; ' 2B3 +2' . B' < B3:93' : +' & 422' 42' :B.2' <B:49.K
3 E2' 532BE 253⁄ 2⁄283' '.:54' ?9 ' 4 : 3' N3B2' 2 ; <+:R4'
23' 5:5' 2B3 +2' ' 2' ; a ; 2' :5' 4 B ' 95' 28<B 3' 4.:54⁄
< B.2' ?92' .23' 28<B 3' 283' B2<B482534' .: ; ; 2' R 53' + '
E2B39' 42' <B:49 B2' ; 8⁄ 8' :5' +2' 4 3' 2B3 +2⁄ +' 94B '
@:932B' 25' ?9 : ' 2B3 +2' 25' B288:9B.28⁄ 25' 5E25K
3 :58⁄ 23.' < B.2' ?92⁄ E2.' 2B3 +2⁄ +' 93' 45:5.2B' .2'
?9 ' 283' <:B34⁄ <B:49 3' 5' 3B:9E2' + ' 4 2B25.2' 25*'
3B2' .28' 429 ' ; :38' G 25' ; B?942' 4 58' .2332' <=B 82' '
5' 'E9' :9' . ; 'E: B' +28' ; :R258' ?9 ' + ' B254253' 2K
.:542' H+ '32BB2I' :5' '288 R+' 42' + ' B254B2' 2B3 +2' 25'
+ ' .9+3 E 53⁄ " K ' 5.' 5 ⁄ Y ' 2B3 +2' 283'
<:9B' + ' 32BB2' 95' 8258' <B:<B2' 4.:54' 5&R' 283' ?9&952'
; 23 <=:B2' 5' 4 3' 4&952' 2 ; 2+2' ?9&2+2' 283' 4*'
.:542⁄ 23' 5:5' < 8' 2B3 +2' 4.:54' 8& <<+ ?92' ' &:B*'
J 5 8 ; 2' <B:49 8 53⁄ 2B3 +2' ' + ' 32BB2
' ' O%' (7-"7 '#"' 1-/!(-%#' !'4'*#!-'"'
QE:R' ' G' ?9 ' ("' '044*'%"' ' 4'*#!-'"' '%'
9' O/(2'-%' &7' %'"
j' ' Q 4*\:5*4 5*8⁄/⁄ ' ' 2B ; 2' 4 *'
4 .3 ?92' 9 88 5.2' 42' 4.:542B' :9B' + ' B2<B:49.K
3 :5' 428' 28<4228⁄ + ' 5 39B2' ' 4:554' 9A' 2 ; 2+28' + '
4.:54 34⁄ 9A' ; +28' + ' 4.:54 5.2⁄ c5c .' '
4 58' &"' ' " ' N
- ' (! ' "(!-" -
8 - ! #!" ' ' Q 4*\:5*4 5⁄ 4 5*3⁄/⁄ ";'
9 ' 4.:542' 52' .= +29B' 4.:54 532' 2332' 442' 42'
4.:542B' 428' <+ 5328' 2 ; 2+28' < B' +29B8' B . 528⁄ ; 4*'
B 32' 889B4 ; 253' ?92' E:98' 3253 2M +28' 2A<4B 25.28'
<B:<B28' '+ 'E4B 2B' ; 8' +28' B . 528' 8:53' G 25' 4+: *'
J5428' 428' +29B8⁄ 23+&28<B 3' 4.:54 53' 9B 3' G 25' 49'
.=2 ; 5' ' B2' <:9B' < BE25 B' ' &:E B2⁄ '
+ ' " 5' 3' A ⁄ < ') ' 4 58'
3' ⁄ ' Q 4*\:5*4 *329B⁄ 3B+*8&/⁄
"; ' $9 ' ' + ' :B.2' 42' 4.:542B' 5' 89<<:8 53' 4& 9*'
3B28' 8:B328' 42' ; :4 . 3 :58⁄ 4 58' +28' :BJ 528' 42' + '
J454B 3 :5' 42' & 54 E 49' 4.:54 329B' :5' 9B 3' 4& 9*'
3B28' B489+3 38' 4 58' +2' J2B ; 2' 4.:544⁄ # ' :5*'
4 ' (!# ' !#/ - ' 1<75' 'E ⁄ < '"CC⁄ 4 58'
- ' (! ' (!-" #
8 - ! #"*- !' Q 4*\:5*4 *8Z:5 ' 25' E2B8⁄ 42' . 5?'
8R+ G28/6⁄ ' ' .3 :5' 42' 4.:542B⁄ B489+3 3' 42'
.2332' .3 :5⁄ 25' < B+ 53' 428' 43B28' :BJ 5 848' 2' .:5*
.:9B8' 49' .:?' 283' 542288 B2' <:9B' + ' 4.:54 3 :5' 428'
; 9 8⁄ 23' 2&283' 95' 3' .?9 8' < B' 952' +:5J92' 23' .:5*'
83 532' 2A<4B 25.2⁄ ' 3' ; ⁄ <⁄ 3 9 0' 4 58'
4*! ' 28' E2538' 52' 8:53' < 8' +28' 829+8' ; 5 83B28'
42' & ; :9B' 428' <+ 5328' 952' ; 9+3 3942' 4& 582.328'
+48' 8& .?9 33253' 49' ; 4 ; 2' : .2' 25' E:+ 53' 4⁄952'
<+ 532' ' ; 2' 93B2⁄ +8' 3B 58<:B3253' 42' ⁄952' ' & 9*'
3B2' +28' <:988 4B28' E E 5328' ?9 ' 82' 8:53' 33 .=428' '
4 4B25328' < B3 28' 42' +29B' .:B<8⁄ 23' :<4B253' 58'
952' 4.:54 3 :5' B3 . 2+2⁄ ' 1!- ' -! '
' C' 28' 3454GB28' ?9 ' .:9EB 253' + ' 4.:54 3 :5'
.G2M' +28' G2 ++28' :53' 4:52' .: ; ; 2524' ' 8&4.+ B. B⁄
; 8' 2++28' 52' 8:53' < 8' 253 4B2 ; 253' 4 88 <428⁄ 5'B '
B ' C' ! ' < ++ 5M 5 ' E 253' 4& 583 392B' 428' 2A<4K
B 25.28' ?9 ' <B:9E253' 42' + ' ; 5 4B2' + ' <+98' 4 5232'
?92' 2' J2B ; 2' <B42A 832' 4 58' + ' JB 52' ' + ' 4.:5:G *'
3 :5⁄ ' 1!- "' (!# ' !#/ ' 8<75' 3' E⁄ < ' %N⁄
5:32' ⁄ 4 58' " ' 4.:54 3 :5' 8&:<4B2' 4 58'
+28' <+ 5328⁄ +:B8?92' +28' <:988 4B28' 428' 43 ; 528' 8& B*'
B43253' 89B' +2' 83 J ; 32' 428' < 83 +8⁄ ' + - -
- ! ' 4.:54 3 :5' 5⁄283' 4 58' +2' .3 :55 B2' 42'
& . 44 ; 2' ?9& ' < B3 B' 42' &44 3 :5' 42'
- ' (! ' (!-" #
82! ' Q 4*\:5*44⁄ 442/⁄<:B3' ' 2549'
4::54' :B8?92' +28' 2 ; 2+28' H428' 323B 8⁄ 8:B32' 4&: *'
82 9I' 8:53' 4.:54428⁄ 2+28' E:53' .= .952' 42' +29B'
2 34' B2' +29B<:532' 4 ; :8 428' 3 ++ 8' 4< 8' 23' 9 5<29'
4+2E48⁄ 7B ' %' 9 ⁄ < ' Y%M' 4 58'
58' .28' .= ; <8' 4.:5448' B' +28' 3B48:B8' 49' +'
4: 3' +8' 8:53' 5:5448⁄ 59. 8⁄ ? 7 #*' 5⁄ C
3' 8 - ! ! "' Q 4*\:5*42* ; 5/⁄ :42' &952'
; 5 4B2' 4.:542
- ' # ' S 68' 2' + 88 53' 9' .:+: ; G 2B?92' 428'
< J2:58' @29528' 23' 42' ; : 25' J2⁄ <:9B' 2.:542 ; 253'
B9.3 2B⁄ : ' ' ' ⁄ :3

- ' (! ' - * ' 23' +2' 89 A2' ; 253
' Q 4*\:5*44/⁄ / ' ' ⅬⅬ ' : ; ; 95 ?92B
' :5' J2B ; 2' + ' . 982' ; ; 44 32' 42' 8:5' 44E2+:<<2*'
; 253' 4.:542B' 95' J2B ; 2' 2332' =29B2982' 442' 42'
4.:542B' B3 . 2++2 ; 253' +28' :29 _' 42' <: 88:58' E 3'
434' 58< B42' ' ! ' > .:G ' < B' &:G82BE 3 :5' 42' + ' 4K
.:54 3 :5' B3 . 2++2' ?92' +28' 582.328' +48' :<4B253'
4 58' +28' E4J43 9A⁄ 25' E:+ 53' 4&952' <+ 532' ' :52'
93B2⁄ 23' 25' 3B 58<:B3 53' 58' 89B' 952' +29B' +28'
<:988 4B28' 4&952' 93B2' +29B⁄ ' ' * " '
' :>, / ' 3' .- ' < ' YM ' 5:32' ' 4 58' ' 5*'
4 8' ?92' +28' < + ; 2B8' ; +28' 8:53' 25' <+2 52' 29B⁄ +8'
8:53' 8 58' .2882' 25E B:5548' 4&95' 59 J2' 42<:988 4B2'
?92' +28' M4<=RB8' 3B 58<:B3253' 89B' +28' +29B8' 428' < +K
; 2B8' 2 ; 2++28⁄ 23' ?9 ' +28' 4.:54253⁄ +: ' " '
-! ' 'C' ' 6' 254B2' G954 53' 25' <B:49 38' 2' +'
4.:542' & JR<32' :+2 +⁄ 8 2B4' + ; G2 9' 79' 4.:5*'
428' + ' 32BB2⁄ 6 ' # ' 9 ' 5⁄ C' ⅬⅬ J' '
; 44 3 3 :5' 4.:542' &28<B 3' ⅬⅬ 6' 2' 4.:542B0W '#
2E25 B' 4.:54' &283' < B' + ' ; 44 3 3 :5' ?92' &28<B 3'
82' 4.:542
- ' ! ' 4.:542B' 5&283' 4 58' +2' .3 :55 B2' 42'
& . 44 ; 2' ?9& ' < B3 B' 42' &44 3 :5' 42' CN
- ' (! ' B:E25?' 23' 28< J5' *, ' 3 + ' '
* ' 49' + 3' ' 42' *, , ' 4.:54
' Q 4*\:5*4 *34/⁄ ' ' ⅬⅬ 6' .9+34' 4:53'
@:9 88253' +28' .:B<8' E E 538' 42' 82' B2<B:49 B2⁄ 2&283*'
*4 B2' 42' 4:552B' 5 88 5.2' ' 4& 93B28' .:B<8' E E 538'
:BJ 5 848' 23' .: ' :B ; 48' .: ; ; 2' 29A' ⅬⅬ 5' < B3 .9*'
+ 2B⁄ 4 58' &28<4.2' =9 ; 52⁄ <B:49.3 :5' 428' 25 538⁄
25' < B+ 53' 428' ; B J28' :9' 428' 2 ; ; 28' ' 4 E2B82'
4.:54 34' 428' ; B J28' ' 4.:54 34' 4&952' 2 ; ; 2'
:5' =29B2982' 4.:5 ' 34' B2882BB 3' 3:58' +28' @:9B8' +28'
+ 258' 42' +29B' ; :9B' ; 939 +⁄ ' ' %& ' 2
5&43 3' < 8' +2' 44 X' 42' 8 3 ' B2' +28' 8258⁄ ; 8' & K
; :9B' 42' + ' 4.:54 34' ?9 ' <B48 4 3' ' .28' .= 8328'
; B J28⁄ 5' 3 ! '3664 8.')' NN' 58' &2' 4.2'
=9 ; 52⁄ + ' 4.:54 34' 44<254' 42' & G:54 5.2' 428'
89G8 83 5.28⁄ 23' + ' 4 82332' <B:49 3' + ' 834B + 34⁄
0 1 5' ' ' / ' L>, / ' 3' A⁄ < ' % C⁄ 4 58'
E .9+34' ?92' <:88442' + ' 32BB2' 42' <B:49 B2' 2'
+' <:B3 3' < B3:93' + ' 4.:54 34' :88' ' ; ⁄ ' '
4.:54 34' 42' + ' 32BB2' 23' .2++8' 428' 5 ; 9A' 283' 952'
8:9B.2' 54<9 8 G+2' 428' E 8' G 258' :B' 23' & BJ253'
52' 8:53' E2598' ?9& <B48⁄ <:9B' . + 32B' +28' 4.= 5J28⁄
' O ' O' ' 3: ' 3' 5:8' .= ; <8' ; +=29B29A' < B'
+29B' 4.:54 34⁄ ' :52B⁄ ⁄ L' 6' B' 2A3258 :5⁄
+' 82' 4 3' 42' &28<B 3' ?9 ' <B:49 3' 2332' 4.:54 34' 42'
!' & GG4' J5:5⁄ ?9: ?92' <29' .: ; ; 952⁄ 43 3
; : 58' B2 ; B?9 G+2' ?92' + ' . + 34' ; 2BE2 +2982' ?9& *'
E 3' 42' < B+2B 58' <B4< B 3 :5⁄ '
3 11 ' ' ' + 82 ' + 3' ?92' & 442' 42' ?92+?92'
<<+ . 3 :5' 93 2' 43 3' 542288 B2' <:9B' B4E2 +2B' 8:5'
J45 2' ?9 ' 44<+:R 3' +:B8' 3:932' 8 ' 52882⁄ 3:938' 8 '
<B: :5429B' 23' 3:932' 8 ' 4.:54 34⁄ ' %&S
1 ' ' 5' 82' 4 3⁄ 4 58' 95' 8258' 5 +:J92⁄ 42' .2'
?9 ' <B432' G2 9.:9<' 9A' 44E2+:<<2 ; 2538⁄ 9A' <2B*'
?98' '4' J' 5' 82' 4 3' 428' .3:828' G83B 328' 'R'
' 429A' 2.:54 348' ' + ' <B2 ; 4B2' 4 58' + ' 5 39B2⁄ + '
82.:548' 4 58' + ' .= B 34⁄ ' # ' " ' '
, ' ' 2' 8 5J' 428' ; B3RB8⁄ < B' 952' ; 2BE2 +K
+2982' 4.:54 34⁄ 52' 82BE 3' ?9& ' <B:49 B2' 42' 5:9*'
E2 9A' 44+28⁄ ' < " * ' , ' I' E25+⁄
< ' " F ' 5' R' ' 4 58' +2' .:29B' 42' &G: ; ; 2⁄ 42<9 8' 8 '
.:BB9<3 :5⁄ 952' ; +=29B2982' 4.:54 34' <:9B' +2' ; +⁄
?9 ' +34B2' G 25343' 4 58' +28' 25 538' +2' <29' 42' G:5K
528' 4 8<:8 3 :58' ?9 ' B2838⁄ ' 9 ' ' '
$N' "
- # ' S 6 8' 53' 29' <B 2B253' < B' JB 53' =9*'
; + 34⁄ $92' + ' ; 9 +2B' 495 3' 2.954 323⁄ @ ' ? '
' O I' 8' 2<9 8' ?9& +' E B253' ?92' 25' 3:R' E: 3' 2*'
.:54 34⁄ 23' <:B3: 28' 25 58⁄ C - / # ' ' N' ⅬⅬAE 6' 8'
+ 52 ' .2+2GB 53' <+98 29B8' 32BB28' < B' +29B8' 283B 5K
J28' 2.:54 348⁄ :' ' '
- (! ' B:E25⁄ *, ' 28< J5' *, '
' 3 + ' ' 49' + 3' , ' 42'
, 7 ' 4.:54
8 @ ' Q 4*\9* &/⁄ 8 ' ' H 6' 93B2 : 8' 5: ; ' 4:554'
9A' ; 3 4B28' ?9 ' 82' <B4. < 3253' 428' 8928' :G32598'
< B' 2A<B288 :5 ' 2' 892' 49' G:9+2' 9⁄ + ' 4.9+2' 49'
?=2BE 8⁄ +28' +29B8' ; 4 ; 2' 49' 3 ++29+' <B:49 8253' 428'
' 53 348' 3B48*8258 G+28' 42' 89.B2⁄ ' A '
' ⅬⅬ 6' 4.9+2' E2B32⁄ 5: ; ' ; <B:<B2' 4:554' 9'
44<43' ?9 ' 82' :B ; 2' 4 58' +28' 8928' E4J43 9A' :G32598'
< B' 2A<B288 :5⁄ 23' :B ; 4' 42' .=+:B:<=R+2⁄ 42' B48 52⁄
42' . B2' 23' 4&952' ; 3 4B2' M:342' :9' 2A3B .3 E2'
' Yd' 9@:9B4&=9 ⁄ 8R5:5R ; 2' 4& ; 4:5' 5' 4 3' 988'
4.9+2' ; R+ .42
- ' (! ' 3' * , ' 4 ; 593 ' 42' 7 ' + 2
' Q 4*\9*+ 5*86/⁄ ' @⁄ 6' 2B ; 2' 42' .= *
; 2' %O%' 428' + ?929B8' ?9 ' 8:53' .= BJ428' 42' + 2⁄ 42'
844 ; 253⁄ ⅬⅬ 5. 25' 32B ; 2' 42' ; 442. 52' %O%' 428'
=9 ; 29B8' 3B:9G 28' .: ; ; 2' 40' ' 952' + 2' >& ' ' E:98

#-'"' , ! "' 9"' . * ! (' 0 ; 0 / # * / / "' ' . *%' "' + 0 / . 0 - ("' 2 * / K
(%-%!%-*/ ' ' 1-/%"+4#'-"' #"' .*('"/%'0--&"(' '&O'2*'K
'!4%-*/' #"' .*%'"' (0/7' ' 1 2'"%#' #"' .*%'"' ; -&"' '%'
' &O' $#2!&"/2"' #"' .*(' 6! + "!'(' ' A B' '
' M ' ' d' Q!O&-%#' #"'2"' , !-' 2* /%-"/%' #"' &O' $#2!&"'
!'O + -# /
'$- ?' O%' P *, ' , , '$#2!-"/%
' D$#@[!@&O / '&O / @$E ' 6' NN I' $-
("' #-%#!! / "'&-, !"!"#40-(("'260'7#"' #"'&-"' NN d' Q!-'
'"/$"' + "' #"' &O' $#2!&"' *!'O + -#* / ' , ! -' "(%' 2* + 4 * (#'
#"' $#2!&"' /' O&- + "/%' $#2!-"/%' /"' (! ; (%O/2"'
! / "' 4 %"' $#2!&"/%"' NN#' ' /' $#2!-"/%' #"(' $#2!@'
&"/%(' '"/' 40'&O/%' #"(' O&- + "/%(' $#2!&"/%(
' # ' O I' 8' 16! + "!' ' $"2!&"/%' "%' + "&O/26*@'
&-, ! " ' , !-' 2* + + "' ! / "' &8"' 4"(O/%"' "%' %' " ' "(%' ' " / @'
$"' + #'O!'2'"!:'"%' .*!(%"' #!'$*8" ' ' '$ '
'$- ?' ' *. "/ , ' *, ' "(407/' "%' 4*'%!7'
* , ' #!'&O%' *, , ' #"' / ? '$#2!&"
@& D$#@[!@&#E' ' ' ##!-'"'"/'$#2!&"' ('$#K
2!-"/%'&O'4&!('HO/#"'4O'%-"'#"'&"'!'('4*>-g "(#"'%"' ' "
c (! 6 '
%' $- ' D$#@[!@&"@'-"E' ' ' O ; '-, ! "' O%"K
&-"' '* ' ("' $O ; '-, ! "' &O' $#2!&"
$' $- O' H' D$#@[!@&"$-&"%-@<1E * #9 ' "' + "'
#"' 26- + -"' Q!-' 2*/%-"/%' #"' &O' $#2!&"
- ' (! ' - *,
$' ' D$#@[!@&-#E' P' + ' "&!-' , !-' $O ; '-, ! "'
#"' &O' $#2!&"
%' $- & ' D$#@[!@&&@($E' ' ' O!.O-('(8/*@'
/8- + "' #"' $#2!&-"'
'$- ?' - *,
%' #7> + &#' D$#@[!@&-@%1E' ' ' "' + "' #"' 26- + -"'
#/*+-/O%-*/'7#/#'O&"'(*!('&O, !"&&"'*/'O.O-%'4*@'
4*(#' #"' 2* + 4'"/#'"' &"(' 4'-/2-4"(' -+ + ##-O%(' #"('
.#7#%O!:'4!&.#'!&"/%(' (O/(' (O."!"' /-' *#"!'' %"&('
, ! "' 1O + -#-/ ' ' 1-/!&-/ ' ' "%2
$' $- & ' D$#@[!@&*@-@#1E ' 6' "' + "' #"' 26-K
+ -"' Q!-' "((" + ; &"' ' #"' &O' $#2!&"
'$- ?' - *, ' "%'(& *3' $*' + "
" ' ' D$%#@##@-O&' 'O@ A ' * 6' NN I' Q!-'O
'044*'%' ' ! / "' 2*/$###'O%-*/'#1 %O%(' O' 1-(("'&"('
%O%(@ /-(' (*/%' #"(' 7*!."+"+"/%(' $###'O!:
' d' # ' ' " ' ("$###'O!:' / * + ' # * / / # ' " / ' 40'%-2!@'
&-"' 'O!:'40'%-(O/('*!O!:'(*&#O%(' #"(' %O%(@ /-(' #!'
'# , !-##$"/#00"/%&O'###'O%-/'2*/%' "&"(' (#40'O@'
%-(%"(' #!' !#'#-%('2*/$"##'#('NN 1O#9"2%-$'O'4-('O!((-'
2"%%"' O22"4%-*' "' (%' " - / % ' " ' > ' &"(' %' * ! 4 "(' $###'O&"('
'$- ? ' O%' , ' 'O&&-O/2"' #!O4'#('4*'
#%8 + *&*7-(%"(' ('$*'+#' #"' ' ("'$-"' ' 2*++"' #O/('
&"' 7' "2 ' -%#/*-MO' "(%' $*' + #' #"' -%%DM*D-O%' , !-' #!O-&@'
&"' !'('O'&"' +##+"' 'O#-2O&' , !"' &"'&O%-/'
$' M#" #?O+ 8#' ' D$#@##@'O@&-@<# ' <#"E' "
" ' %O%(' $###-O (#(
$ ' D$#@##@'O@&-@<#E' . ' ' #*&*@'
7-(+"' '70/-("' "/' $###'O%-*/5' (*!+"%%'"' O!' '#@'
7- + "' $###'O%-$' NN "' $###'O&-("' ' / ' ' "' $*' + "'
"/' $###'O%-*/
' (! ' ###'*&
5' M#" #?O+ 8%#' D$#@##@'O@&-@(+ 1E ' ' ' #*&*@'
7-(+"' 8(%#+"' #*2%'-/"' #!'7*!."+"+"/%' $###K
'O%-$' "' $###'O&-("' #%O-%' ! / "' #"('$*' + '("4*&-%-, ! "('
&"(' 4&!(' 2* + + ! / "(' "+4&*8#"(' 40"' &"(' (O!.07"('
('& +, ' , / ' NN "/#O/%' &O'
'#.*&!%-*/' 4'*9"%' O%%-; ! #' O!:' 7-'*/#-/"(' '* + @'
4' "' ! ! / -%#' / O%-*/&O'"' "%' #"' %'O/(' (!$* ' ' * O'
"/' ' ! / "' $###'O%-*/' #"' 4"%-%(' %O%(' ! :' SO2* ; -/(' */'
07-%O' 7'O." + "/%' &O , !"(%-*/' #!'$###'O&-(+ "' "%' * /'
(*!&"' O' ' + -&&"' $--'"' ! + ' 2*/%'"' &"(' 7-'*/#-/(' '
' ' ' / ' / ' '26'-
- ' (! ' -
%' #6# O+ 8&#' D$#@##@'O@&-@($E' 6' Q!-' O' '04K
4*'%' O!'$###'O&-(+ "' NN ' + ' O'%-(O/'#!'$###'O&-(+ "
- ' (! ' " # #
#" #?O& M' ' D$#@##@'O@%-$'%-@.1E' 6' Q!-' O'
'044*'%' ' ! / "' 2*/$###'O%-*/' ' ! / "' O&&-O/2"' 4*&-K
%-, ! "' *!." + "+"/%' 402%"' $###'O%-$' "(' %O%(@
/-(' #"' 1 + #'-, ! "' ("' #*/ / #' "/%' !/"' 2*/(%-%!%-*/'
$###'O%-." , !-' O9*!%O-%' O! :' O.O/%O7"(' -/%#'-"' !(' ' #!'
7*! ." + " + "/%' '#4!' ; &-20-/' %*!%"' &O' $*'2"' ":%#'-" ' ! "'
#"' &O' + */O'26-"' ' $ ' '4 %S': .-/ ' R' 1 !@'
'*4"' 4'#("/%"' ! / "' '#4! ; &-, ! "' $###'O%-."' 2* + 4*(#"'
#!"+4-'"(' '%' #"' '*8O!+"(' "%#' #!'"*#!%O ; &"'!, !-'
O-%'9O+O-(' ":-(%#' 9 ' ! ' , / ' ' ' S
, ' 4 ' : : - ! ' "(' 7-'*/#-/('#"+O/#O-"/%' (-'
04'#('%*!%' &O' *!."&&"@ + #'-, ! "' &O' *&&O/#"' &O'
!-((" ' /1#%O-"/%' 40(' 6"!"'!("(' "%' &- ; ' "(' (*!(' ! / '
'#7- + "' $###'O%-$' ' ' ' / ' '
/ ' '26'-
- ' (! - '
" ' D$#@##@'O@(-*/5' "/' ."('(' #"' -/,
(8&&O ; "(E' ' NN d' /-*/'4*&-%-, ! "' #1 %O%(' O' $###@'
'O *' /' O + #'-20-/ ' ' 1 &&" + O7!"' #%O-%' ! / "' $###'O@

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[illegible]

[illegible]

<2++@' .954 0' 2&283' _'4 B2' 2+:5 20' '< &'
" C'LLAE 68'> ; 8' 2B2' 3EJB28820' 9A' :B2838' 4& B*'
; 25 20' 2' 3' E: B' 3 53' 4& B429B' 23' 3 53' 42' 2+:5 20'
+:B8' ?9& RE33' 89 E' + ' < 832' 49' .= 8829B0' +2' 3K
3 53' 42' 828' 58' 2' .B92+ B B 8829B0' ? !7#'"'
,# -'<' "0' : 58'
' ' 3' <B:E25 ' !- ' - ' 7)'
- P' 28< J' !- 3' 3 +' !-
$ ' Q 2*+:9*\&/0' 6' ' 2B ; 2' 42' ; B 52'
23 3' G 3 ; 253' 23B: 3' 23' +:5J0' 'E: +28' 23' 'B ; 28'
$' E:98' 82B ' .+2' 42' 5:+ 82B' 'I2 ' 952' 2+:9?92'
<:9B' = :' :9' <:9B' ; RB520'
' ' :B39J' 7 3' 3 +' & (3' 42' & B G2'
& 6 ' 5 E B20' 49' E2B=2' 6 ' 254B2' +28' :5428
F , ' h *+9*B&/0' ' ' 2532' 4&952' .=:82' +22'
'82B 3' 3B 8* 5JB 3' 8& +' 8 3' + ' ; : 54B2' +9B2' '+'
3:B ; <2332' ?9' 283' 2 ; G :9.=22' <:9B' +9 0' ' + '
K '"'@) 7 - ' ' ; B8' CN7' '42' .2' 82 5' GB 84' + '
3 :9+29B' 23' &2A3 82' 04< 5.=253' . : ; ' &2 9' 428' +'
+9B28' 4&95' E 820' E'6 7 '1# ' W' L' J'23 ; B2*'
; 253' J2B' 3B:9G+2' 42' & 532+ J25.2' ' '952' +9B2
- ' E& 8' B .39B2' 49' .B 52' 25' :B ; 2' 42'
+ J520' 4 32' 2532' :9' 2+9B20' ' '%
' ' #
! 'Q 2* ; 2*+&/0W' [' LL36' 5 ; +' 49' 82A2' 4*'
; 5 5' ' 2 ; 2++2' 49' 8 5J2' ' 2 ; 2++2' 428' : 82 9A'
42' B < 52' 283' <+98' JB 5420' <+98' :B320' <+98' G B4 2' 23'
<+98' 4B: 32' ?92' 8:5' ; +2P' ; 8' + ' 2 ; 2++2' 428' : K
82 9A' ?9' 52' E253' <: 53' 42' B < 52' 283' <+98' <23 32'
23' 5&283' < 8' 8' G2++2' ?92' 8:5' ; +20' ' 7(!-)'
- # ' 3]' < B3 20' .=' "0' 4 58' ' 2830' 4 58'
+28' 2 ; 2++280' 428' 32 ; <8' ; B?9 8' <:9B' + ' J254B +'
395' P' +28' ; +28' +28' 33 ?92B 253' E 52 ; 253' 25'
4& 93B28' 32 ; <80' 2+328' +28' B2<:9882B 253' :9' 82' 8:98*'
3B B 253' ' +29B8' B2.=2B.=280' '1!-
-! ' O I' < B3' .=' "' LL ' ' 82' 4 3' 428' 2 ; ; 28' 25'
32B ; 28' 42' 89..288 :5' 23' 42' J452 +:J 2' 58' +28'
429A' <B2 ; 2B8' 42JB48' 42' 89..288 :50' +28' E <3 J28'
428' ; +28' 23' 428' 2 ; 2++28' 23 253' +28' ; 280'
M' < 'AE ; 0' ' LL FO &2 ; <+: 2' ; + 2B2*'
; 253' +:B8?92' &:5' < B+2' 42' 2 ; ; 28' 25' ; 9E 82'
< B3' &283' 952' 4B: 32' 2 ; 2++2' 2' < B2' ; :B30' +28'
3B: 8' 2 ; 2++28' :9B253' 9' 3283 ; 2530' 8 58' 33254B2'
<+98' 3 B40' '% ' '50' ' 2' J +23' 8' 42E 53'
& 53B2' 42' + '8 GR++2P' & 93B2' 2 ; 2++2' E 3' .= + 54 '
.2' + 290' ; ' ' E 0' "8' 2332' < 88 :5' c3 3' .B92'
E2.' & J2' 9' .:29B' 428' 429A' 2 ; 2++280' 50' C #'
' B' <+ 8 532B 2' :98' + ' 3B:9E ; 28' H! ; 2' 42'
= 9+528I' ..: ; < J522' <:9B' +2' ; : 58' 42' ?9 B 532'
2 ; ; 28' :9' ++28' 42' ?9 + 34P' < 8' 952' ?9' 5&243' 95'
G2 9' 5: ;'P' + '<+9< B3' 3 253' +28' 2 ; 2++28' 42' .29A'
?9' 3 253' E2598' 9*42E 53' 42' 5:980' 8 E' ""C'
' "]' ?"; ' 5' 82B 5' 2 ; 2++2' 52' <2B4B A' 2 ; 2++2'
' J' &283' 95' 4 ; :5' 2 ; 2++20' 82' 4 3' 40952' 2 ; ; 2'
3B 8* ; .= 532' LL ; + B2 ; 253' 2<29<+2' 2 ; 2++20'
+28' 2 ; ; 28' 2332' :< 5 :5' 42' + '<+ .2' ?9&2 2' H! ; 2'
42' 53* ; :5I' ++ 3' B2 ; <+ B' 82' 3B:9E 'B2< 5492'
< B ; ' +2' <2:<+2' 2 ; 2++2' 42' + ' .:9B0' !8 ' JQJ'
"CC' %0 2B ; 2' 42' G:3 5 ?92' ' 82' 4 3' 42' &:BJ 52'
428' 3 5 ' ' 4:552B' +2' B9 3' 2' < 83 +' 283' &:BJ 52' 2K
; 2++2' ' +29B' 2 ; 2++20' .2++2' ?9' 52' <:B32' ?92' 428'
< 83 +8' + ; 2B' 2 ; 2++2' <' 2 ; 2++2' LL N6' 9.= '
2 ; 2++20' .2+9' ?9' <:9E 3' 3B2' <:88 4 ' < B' +28'
2 ; ; 28' 28' 49.=28' 4& +GB23' 23' 42' G 32 D0 = 2BB'
52' 8253' <: 53' 2 ; 2++28' 4 58' +29B' <B2 ; B2' B2.3 :50'
(@(-? ' "70' ' LL C' 58' +2' + 5J J2' 4 '4 B2538'
B380' 82' 4 3' 428' < B3 28' ?9' 25' B2Q: B253' 4& 93B28'
+L + ' GB 5.=2' 2 ; 2++2' 3 28' :B.280' .2++2' ?9' 283'
A.2' ' + '3 G+2' 49' 3:5429B' ' 82' 4 3' < B5<<3 8 3 :5'
' + ' GB 5.=2' ; +20' ?9' 283' ; :G +2' LL :93' 2 ; 2++2'
4&+ ; '39R 9' 42' .:549 320' .2+9' 4 58' +2?92+' 253B2' +2'
G:93' ; +2' LL 5' .= B9BJ320' GB 5.=2' 2 ; 2++2' 4&95'
583B9 ; 253' '429A' GB 5.=280' .2++2' ?9' B2?: 3' & 93B2'
' .:9+ 882' :9' 42' 3:932' 93B2' ; 5 B2' LL 2B ; 2' 42'
; B 52' +28' 23' 2 ; 2++28' 8253' 428' 5: ; 8' ?3+2' ?92+*'
?928*958' 4:55253' 9A' J:548' 23' 9A' B:823328' ?9'
82BE253' 42' 2BB9B2' <:9B' 898<254B2' +2' J:9E2 ; +'
' & 3 ; G:30' " ' "NFC0' 4 58' ' LL 9G83 5*'
3 E2 ; 2530' 952' 2 ; 2++20' ; :B.2 9' 42' 2 ' .2+ ' 4 58'
+2' ; 9B' 23' .B298 ' <:9B' B2.2E: B' +2' < E:3' 4&95' E 53 +'
42' <:B32' . : .= B2' LLF6' 2B ; 2' 42' . : ; ; 2B.2' 2 ; 2++2'
.D B20' <+9 ; 2' 4& 93B9.=2' 5: B2' 23' G+ 5.=2' 3 58' + +'
?92++2' +2' G+ 5.'4: ; 52' 2 ; 2++2' :G8.9B20' + ' ; 2'
28< .2' 42' <+9 ; 280' +:B8?9& +' R' '<+98' 42' :B' ?92'
42' G+ 5.' LL B:E2BG2' 28' 2 238' 8: :3' 428' ; +280' 23'
+ 8' <B: ; 28828' 8:53' 428' 2 ; 2++280' 2&283* *4 B2' +0' 5&R'
'4& 889B '23' 42' 2B ; 2' ?92' +28' .328
- '# 0' A 56' 8' ' 2 ; 2++2' 42' &:+ <= 53' <B: 8 ; 2'
Q8& <<B:.=2I' ' &2BG2' ; 5325 530' 55' ' #!)'
' 3' 42' .2' 4B: 3' 428.253' @2: 539B2' 42' ; +2'
N3' 42' 9 ; 2+2' ? 2' 5:8' <2+:58' ; 5 J2&c32' "'" 7 '
6' 'S 68' 2' ; 8+2' 5& '+ ' 9 ; 2 2' 2=' ; 28<B 80'
' ! 0' 0' FC' 5.:53 5253' 428+:R +2' 2 ; 2++20' 92

@& 9B ' .3' 23' 28.B 3' 3:5' + G2++20' 53B2' +28' ; 58' +2'
; 233B R' 4&952' 2 ; ; 2' $9' <<2+ 2' 283' 25: ; ; 2'
:9' ; 20' ' 0' N"
- ' ?' e ++0' , ' 5 ; 9B' , ' # +'
5 930' , ' , ' 2BBR' 23' < . ' , ' <B:+'
E25<' ' 49' + 3' '4 ; 593 ' 42'
2 ; ; 2' QE:R' % @
3' ! 'Q 2* ; 2*+?/0' ' " ' :9' !
Q 2* ; 2*B/0' ' " ' 2B ; 2' 42' ; B 52' 2539B28' '
429A' GB 5.=28' 23' 25' :532' ?9' B2<: E253' +28' J9 +*'
+:38' 49' J:9E2B5 +' 23' ?9' +2' <:B3253' 0
' ' -
3' ! 'Q * ; *W5 2/08 [' &2582 ; G+2' 3 28' 2 ; K
; 280' +28' = G 39428' 42 2 ; ; 280' +2' 4: ; 52' 428' 2 ; K
; 28P ; :32A.2+253' ?9' 8&283' ; +=29B2982 ; 253' <2B49
- '# 0' A 68' ' : 80' 52' .B: 2M ; 2' 253' 42' 2*'
; 25 2P ! 8' 328' .298' <2+2B' $9' B ; 28' 8 .G253'
<:B32B0' ' ' 0 ' < * ' <') '
'S 68' E2.' 29A' E 5B253' 3 53' 42' 89 332' 42' + ; 28'
23' 42 ; : 82++280' ?9& +' 82 ; G+: 3' ?92' +2' B:R 9 ; 2' 3' 2
2 ; 5 2' R' 93' BB E 0' = ' ' = , 'B$$' 0' < ' "70'
4 58 5.32' ! B 2' 3' 3:98@:9B8' 2 ; ; 28'
2 ; ; 28' '42A3B2' 23' '825283B2P' >2' 52' 8< 8' 82' .&283'
8:5J2' :9' 3 53 2P 9 *@2' 9< R842 2 ; ; 25 2 G 383'
,'$ ' '3 50' < ' " C
- ' (! ' -
3' ! ' Q * ; *5 * +:*B'0' W4@D 2B ; 2
#"' ; *%0/-,!"'Q!-' 4*'%"' #"('$&"!'('$"+"&&"(
- ' (! ' 3' ' 2 ; ; 20' 23' '+29B
3' !+ ! ' Q * ; *5 * :B* ; &/0' 6' 2B ; 2'
4 4 .3 ?92' $9' ' + ' :B ; 2' 4&952' 2 ; ; 2' LL 2B ; 2'
42' JB ; ; B2' $9' ' + ' 4 8 525.2' 49' ; 5+5
' ' 3' ' 2 ; ; 20' 23'
f ? ' ' D=@-6-@/-/'/-@/IE' 6' I' I' Q!-
0440'%-"/%' O!' (":"' 20'O2% '-(' 46H&*& ; 7-,!"+"/%'
40"' 1*.0-'"' 26"<' &"(' /-+0!:' "%' 26"<' &"(' 4&0/%"('
"'+ $ +-/-/' NN I' Q!-' 0440'%-"/%' O!:' $"+ + "(' * '
&"!'"(%' 4'*4'"' *80/%' &"('# $0!%(' #!'$ +-/-/' *!@'
.'0H' U#"' &0' $"+ + "J' # '# ' . ' %' 2"' (*/%'
.'0-(' %O'%(' #*/%' &0' 7!"!&"' 0 ' "' 6*//"!"'
$ +-/-/"6"'26"' 'e-'"'2%-- "' '< ' ' '
0' 4*&-2"' $ +-/-/"' 8' %'-*+4 ; "' ' = ' '
&,1 ' ' +0-' MB ' ; !(' $!%' 40"' &"' + 0&-/'
"(4'-%'Q!I-&' 4*!(0' (*!('$ +-/-/' -(OH ' +O ' '
:&.'S!O#+-'"'&"(' '"((*'%(' #"' "(4'-%'$ -+/-/'Q!O/#'
-&' "(%' 07-% ' #"' !O+*!'"'!:' &!%-/' H ' ' -
, ' ' ' "(%' 2"'%O-/', !I"/' 7 / '0& .*%'"'
"(4 2"' $ +-/-/"' .0'4&!(' &*-/', !"' &0' / %'"' 9 '
= ' A ' ,' ! ' ' + 0-' AA ' NN Bd' Q%#' %-"/%'
#"' &0' $"+ + "' "%' 6* + + "' O' ! /' .-(07"' $ +-/-/'
I' "'+"' #"' 7'0+ +0-'"' *+(' $ +-/-/(' /* + ('
,!-' '"4' ("/%"/%' &"(' %'"(' $"+ "&&"(' !' 2"!:' ,!-'
(*/%' 2*/(-# ' (' 2*+ + "' %"&(' "/'"'$ +-/-/'7"/'"'
0%%'-;! ' ' '2"(' /*+(' NN #9"'"%-$'$ +-/-/'4'*/*+'
$ +-/-/' 2"&!-', !-' 0' &0' $*' + "' O$$"2% "' '2"' 7"/'"'
"'+-/0-(*/' $&+%*-/"'2"&&"', !"' $*'+"' 3 ' + !"%'
' 0/('&"' + "' ("/(' $ +-/-/(' &"' + "' ' $ +-K
/-/"' ' #' ' "' $ +-/-/' &"' 7"/'"'$ +-/-/' * /'
$0-%' ; */ / "' O!' $ +-/-,' NN "' $ +-/-/' ' "&' &"' $ +-K
/-/' O%%'-;!' ' ' 2"' , !-' "(%' . '-%0 ; &"+"/%' $"+ "&&"'>'
&"' $ +-/-/' #"' 2*/."/%-*/' &"' $ +-/-/' O%%'-;!' ' O'
%-"('*&, "%(' , !-'40"' '"!:P+ +"(' /!*/%O!'!/'7"/'"'
- 0' A 6 8' ' ' + '<2582' $U258221' 2B5 ; 52'
H2+21' E: 3' ; 8' .:B J2' 42' ; '20' A 1' , ' C'
' AI 68' 3' 8' +' G: ; ' '283 '5:9B 8' 25' L 9' 42' 2 ; 20'
+' 82B '25' 9.952' .:82' 2 ; 5 58' ' ' ' -
3' AA ; 0' <'C ' S 68' 9 B' .=:828' <25 G/28' 23' +
G:B 29828' 2' 283' 952' ; :+28.2' 23' E 2?3' 42' 2 ; 5 5'
23' 42' 2G23'.:9B3'0' N '> 'BY' LQAE6' 8' :B3
2 ; 25 5' 25' V B<8' G 25' _ 3' 23J2530P' 2' .28' JB 548'
G 258283' ; '4 ; 2' J B5 20' ' G ' W' $9'
+28' ; 293' '.2^' H& ; J 52' Q 58' =:5529B' 428' 4 K
; 28' G3 8 ; 2B/0' $92' .&283' 5 39B2' 2 ; 5 52' $92' 3:98'
E E 58' E29+253' R ; 2B0' = ' ' = '1 ' ,
'3 , , 'LLAE 6' 8' 5298' 2 ; 25 5' 82' ; 92' 23'
<B253' 82.:9B80' ; ; 2' + '+952' 283 53' 25' 8:5' 428*'
.:9380' ' ' <' 7' 5' B ; 28' 3:9328' 2 ; K
5 5280' 0' < ' N C' 583' 428< 3 53' +2' 2 ; 5 5'
J25B20' 5:3B2' + B G2' .=2E 9.=2' 28< .2' 42' 3B: 8
@:9B5 280' '<' M
' ' *!'7!-7/-' ' 7 /".'
$' &"' # &-20%5' 4'*."/3' ' '20%O&' '
' "(407+@' ' -%O&' $+ + + $/ *$' #!' &0%'
, '#"' '$"+ + "' 0/(' 002-"/'$'0/@'
20-(' */' #-(0-%' O! ((-'
3' ! ' Q 2* ; *5 *5 *3 /0' ' 'LL ' 2B ; 2'
42' <GR8 :+:J 2' 582 ; G+2' 428' 33B G9 8' ?9' . B .*'
3 B 8253' +2' 82A2' 2 ; 2++20' 23' ?9' 2A<B ; 253' 9' 42K
4 58' 23' +' 42=:B8' +28' 4 B25.28' 49' ; 5 5' 23' 49'
; 8.9 5' LL ' 2B ; 2' 42' JB ; ; B2' $9 + 3 ' 42' .2'
?9' 283' ; 5 5' ' ; 5 5 3' 4&+ ; ' ; :3
- '# 0' A ; 6' 8' '$"+"&"', !-' 283' $'*-#"' 4*"' + '
$"+-/-%' , !-'"/&-'"(%' ' '9 '4' ')B

- ' (! ' - -
? ' f 'Q * ; *5 *M 0' M22/0' <:B30' '
#9 +20' 3R ; :+:J ?92 ; 253' ; 8.9+ 50' 283' ; ' ; :3' +'
; 5 8 ' < B' 98 J2' '*
' Q 2* ; *5 *M /0' 5 ' : 'LL 6 2B ; 2' 42'
JB ; ; B2' :552B' 95' ; :3' +2' J25B2' ; 5 5'
H 58' + ' + 5J92' =9B:552I' 5' 4 8 53' 4&952' 2 ; 2'
?9&2+2' 283' 95' =: ; ; 20' :5' ; 5 82' +2' ; :3' =: ; ; 20'
'? # ' = , ' 'LL ' 254B2'
2 ; 5' ' ; 5 82B' +28' ; 5 2B28' LL 6' 2' ; 5 82B0
'# ' 2E25 B' 2 ; 5 ' 28' ; 5 B28' 82' 2 ; 5V*'
8253' 3:98' +28' @:9B80
'# $ ' - -
' # 'Q * ; &/08 [&' 6' &23B2' ?9' 4 58' &28< .2'
=: ; 52' << B3 253' 9' 82A2' ; 5 5P' + ' . : ; < J52'
42' = : ; ; 2' 3' <2B42M*E:98' 25.:B' +2' 32 ; <8' E2.'
428' 2 ; ; 28^Q ; 5' ' '50' C' $92' + 'E25J2 5.2' 283'
4:9.2' ' 28<B 3' 4&952' 2 ; 2' + : ' 35 5 'E0' ' ! :5'
< B20' @2' 89 8' 2 ; ; 2' 23' @2' 8 8' ; ' G+28I" 5'O 4
0' ! ' $9:2' ?92' E29 ++2' 2A J2B' :52' 2 ; ; 2' 4:B220'
&! - ' 0" ' (258' ; 2M0' E:98' <+8@82M0' .&283' 3:93'
9<B 8' 428' 2 ; ; 280' ; ' .=' ; 0' ' :932' 2 ; ; 2'
283<9 88 532' E2.?92' + 'G2 93 0' -" 'D ' 0'
3' 2 ; ; 2' ?9' . : ; <:82' 25' 8 +3' <+98' ?9& +' 52' + 930'
? 'A' ' ' 28' 2 ; ; 28' ?9' 4:55253' 3:9*'
@:9B8' +2' <23 3' .:9<' 42' + 5J92' 25' < 88 530' 5' $ "'
" ' $92' +2' .229B' 4&952' 2 ; ; 2' 283' + 0-' .:559' 42
3' ?92' E: : 8 E2M<29' .2' ?9& +' E293' _ B2' 253254B20'
:B8?92' 8' G+2 ; 253' :5' +2' E: 3' 82' 4 254B2I' + : '
:B30' BE0' N' >2' 52' 8?' 8' < 8' 42' .29A' ?9' 4 82530' .2'
5&283' B 250' &283' :52' 2 ; ; 2' ?9' 82' = : 2P' >2' 4 8' ?92'
.&283' G2 9.:9<P' 23' .2' 82A2' E 93' G 25' $92' 5:98+2'
B.JB 33 :580' <9 8?5& +' 3' 5:3B2' @: 20' '
5 0& 2' & 3 253' <3 5. < +2 ; 253' 4 8' 2 ; ; 28' ?5' 0'
4:J ; 3 8 253' 8:98' +2' E: +2' 42' \ 5323 ' :5' 52'
+28' < BJ5 ' < 8' 8: 8' <B 32A32' ?9&2+28' 3 253' 2 ; K
; 28' 23' Q< &2+ 28' 3 253' J5:B 53280' ' - '4&:U
' 0' "" ' +2' 52' E: 3' ?92' 428' 2 ; ; 28P ; 8' +28'
2 ; ; 28' 8:53' 988' 4 5J2B29828' ?92' +28' = : ; ; 28'
! 0 = ' ,' . :E4' ' . 'N' . :3' "C F
>2' 8 8' ; 28' <2B 4 280' 5:520' 23' 52' 89 8' <: 53' 4'
.28' 2 ; ; 28' = 5+ 28' $5 0' J:93 53' 4 58' +2' .B ; 2' 952'
3B 5?9 +2' < A0' 93' 89' 82' B2' 3 5' B:53' ?9' 52'
B:9J 3' @ ; 80' '0 ' 50' ' 28' = : ; ; 28' '
+28' 2 ; ; 28' .:5E 255253' B B2 ; 253' 89B' +2' ; B 32'
4&952' 2 ; ; 2P' +29B8' 53 B 38' 8:53' 3B:<' 4 +2B2538I'
' ' +R' '4 58' ?92+?928' 2 ; ; 28' 952' JB 5*
423 ' . 2++2' 33 2G 2' 9' ; :9E2 ; 253' 428' R2390
'95' B' 42' 3 320' 9A' ?:58' 42' ; B.=2B0' 23' ?9' 52'
E ' < 8' <+98' +: 50' ; ' 1' ' <+9< B3' 428' 2 ; ; 28'
5&:53' J9 B2' 42' <B 5. <280' 2++28' 82' .:549 8253' < B'
+2' .:29B0' 5' 1' 5' = : ; ; 2' ?9' 82B 3' 25' <2 52' 42'
. 55 +3B2' 8& +' .= 5J20' 8& +' . : ; ; 25.2' ' E 2 + B0'
<2 3' .:589+32B' +28' R29A' 4&952' @2952' 2 ; ; 2' ?9& +'
G:B42' 23' +2' 3:5' 4:53' 2++2' +9' ' < B+20' 5' 1' +'
BB E2' ?94?52 : 8' ?90952' 2 ; ; 2' . .=2' '95' = : ; ; 2'
3:932' + ' < 88 :5' ?9&2+2' 8253' <:9B' +9 0' <254 53' ?92'
42' 8:5' .N3 ' + 2 53' <:9B' 2++2' 3:932' .2++2' ?9& +' 52'
8253' < 80' 5' 1' 2' ?9' <B:9E2' G 25' ?92' +28' 2 ; ; 28'
5&:53' <: 53' 42' 8' .=2B' 53 B 3 ?92' .2+9' 42' +29B
G2 93 0' 1 '1 ' .=' 7' a' 952' 2 ; ; 2'
H4 58' +28' 3 ; <8' + :4 9AI' <<2+ 3' ?92+?9&95' 8 58'
5:5992B' 8:5' .= ; < :5' H4 58' +28' 492+8' @94 . B28@0'
:5' 52' B222E 3' <: 53' +28' J J28' 42' G 3 +2@' + +'
+ 3' 25. :B2' ?9&952' 2 ; ; 2' 43' 93:B 8 2' < B' 8:5' G K
B:50' 2&283* *4 B2' 8:5' ; 50' <:9B' <<2+2BP' ; 8' 8 58'
.2332' 93:B 3 0' 2++2' <:9E 3' 3B2' <<2+ 20' ('
< ' ' N' +2' < B 3' G 25' 2B ; 2' 4 58' + ' B 8:+'
+93 :5' V42' 89<<:B32B' ; '8:+ 3942P' +28' 2 ; ; 28' :93'
<+98' 42' .:9B J2' ?9&:5' 52' .B: 30' ' 233' < * S
,'D@ 5E@0' "C%%' 28' 2 ; ; 280' ?9' 8:53' < B3:93'
25' < B2 + 5: ; GB ' ?92' +28' = : ; ; 280' '95' ?9 5M 2 ; 2'
:9' 82 M ; 2' <B280' 82+:5' +28' :G82BE 3 :58' 42' .29A' ?9'
:93' . +.9+ ' E2.' <+98' 42&2A :3 3942' .2' ?9' . :5.2 ; 2'
+2' J25B2' =9 ; 50' G' A , ' "' 28' 2 ; ; 280' R 53'
+28' :8' <+98' 49.3++28' ?92' +28' = : ; ; 280' BB E293' 25'
J 5 B + ' '952' <+98' ' 542' E 2 ++28820' ' O 1'
' ' / ' '3' A0' < ' N"%0' 4 58' 7 '>2' E: 80' 4 58'
+2' ; ; : ; 253' .392+0' <+98 29B8' 2 ; ; 28' 25' B 5.2' ? ; '
+3 E253' +28' +233B28' E2.' J+: B2' 3 4 58' 4 B2538'
J25B280' 7 '3 ' ,' * '3' + 0' < ' C0' 4 5
2++2' 2 ; ; 2' 283' .= B ; 5320' 253B2'
5:980' : :3' ' 82B 3' - '#"' 42E25 B' <: 90'
6 '3 ,7' 1' 0' F' :98' +28' 8: 58'
#!! /"' 2 ; ; 2' :53952G B ; 2' 8' 4:9A0' 59. 80' G9 :B0
0' F' 3' + :B8?9&2+2' ' < B' 8:98' +28' .:9<8' 428' = :9B*'
B2 5A' ' 2 ; ; 2' ' 4 8< B9' <:9B' 5&: B B' ?9&95'
= B:80' 7 ' -" ' ' . 'E0' N' &283' + '<9B2'
; 3 P' 3254B2' 8 58' @ + :98 20' 28' = : ; ; 28' ?9&2+2'
95 3' 2+2' 25.G +52' + 'E 23' ! 8' 5<B 8' 4&952' 2 ; ; 2'
2++2' ' <= 8' 42' 4:9.29BP' &283' + :B8' ?92' 4& ; .3 B'
2++21283' EB ; 253' \' 8:29B 5' ' ; : 58' ?9&952' '
; 5320' :5' <+98' ?9&95' ; 0' 5' A

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/ -' &0' "' + ' 6' -&' $"' 9! ' #-"' "% 'd
, ' ' + , ' * ! ' # + , ' 6' ' &* ' C1 / ' , '
3 , ' 4 ' MM"' #0 / (' "' N& -"<@ . * ! (@8' (' 6'
#-%' 40"' 0 / %-46' 0(' "' 4* ! ' 0 . "' %-"' , ! "&, ! ! / ' #"' 40('
(' $-"' 0 ! / "' 4"' (* / "' * ! ' 0! / ' 26* ("'
. * ! (@8' 0' 2"%%%"' 468(-* / * + -"(' -' 4' # . "/ 0 / %"' , ! -' #-(@
40' 0&%' -+ ' , ! 0' %' #16"' ! "' 04' #(' 4* ! ' $0-' "' 4&02"' 0 ! / '
. -(07"' (* + ' ; "' 9 1' , 7 ' 3 , ' ,)
' ' -7' (H"' %' ! 9* ! ' (' "%' / "' %' ! 8' $-"' 40(' (' (' #-%
4* ! ' e-' "' / %' / #' "' , ! ! -&' $0! %' (10-#' "' (* -@ + - + '
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' < ' 7 ' N& : / ! ' (' -"< &0' + * -' * / ' 4' Y '
0 + "' e-%@-&' 2"' . * ! (' 4! ' %' + * ! &%' 7' "' . "' Q! "' U . * ! (J
. * ! (' $-#(' "/ ' . * (%2"' ("-7 / "' ! ' 07' "' c"' <
' 4' ') ' N& : -/ ' (' 0 / %' 9"' + "' $-"' 0 (0 7' 0 / %
&* -0! %' SO 4* ! ' 0! %' ' U"' &&' J' / "' + "' #" . ' 0' 7! "' 4-'
)' ? ' / 1 9* ' < * ' 4' ' 0' %' * 4' / ' (0
; -0! %' (' $-"' Q! -' 0%' "' %' , ! "' $0 + "' &"' 4' -"' ' < '
AMB) ' I' (' "(' 2* + 40-7 - -* / (' #"' , ! -&' (' $-* ' &"'
4&! (' * -(' M' ?0%(' 90' 4* ! ' 2"' %' 04' / "' . * ! (' 8'
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S"' &0-(("' $0-' "' + * / ' 2* / (' "(&-&' 9"' + "' $&"' "' ! &: '
?? ' &' M' * ! ' 2"' , ! ' #"' %* ! (' 4* -/ %' "(' ((' $8* -%
4* -/ %' #"' ("(' 7' / (' #! 0' + "(' -/ ' - . ' ' N& : . - I' (' S"' + "
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! / "' 26* ("' 0 , ! "&, ! ! / ' * ! ' ' A' S"' + "' $"' * (("' 4&! (' (
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- ' ') ' %' -%' 4 YY' Q! -' / ' (' $-0' -$' (%' 40('
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%-#5' "' 40' "%' %' &&"' "(%' "' / / "5' S"' &0' $-"' 0' %' * / %
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0' &' 4* &&' 6#' -((#' $N -7 ' &' (' #-%' ! ' / %' "' + "(' #"' (2! &4K
%! ' "' #! ' "' #! ' "' #-$$-2-&' 0' %0-&&%' ' (! 9"%%"' "
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&"/%ʹ, !&Ơ 0!#02"ʹ 1-/%'H4-#-%& #!H "ʹ%-"%"$0'*!26"ʹ
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,!"ʹ (0ʹ -"ʹ /H%0-%40(ʹ"/ʹ (#'"%&& "%ʹ-&ʹ 2*//!((0-%ʹ
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+0&6"!'"!(" "%ʹ 1"(4ʹ-%ʹ ":%ʹ -/"ʹ *("ʹ %*!%ʹ "%ʹ (0&%ʹ
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BA1ʹ ʹ1ʹ %%0,!*/(ʹ#0/(ʹ&"!'(ʹ+0'(ʹ2"(ʹ"*/,!"@
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+ʹ -%//"ʹ &"(ʹ4&!(ʹ$-"'(ʹ"ʹ 4ʹX%ʹ'.ʹ(ʹO&Ơ$4-(
$-"ʹ "%ʹ '!(Hʹ =!%!(*$ʹ (0'0-% 4$#40'"ʹ0 "2ʹ &"/%"!
!/" 7!"'" %*!%Ơ2*!4ʹ-+4#%!"!("ʹ8[, ʹ ʹ
"ʹ -/ʹ%& -ʹ&"'"(%"ʹ$#"ʹ '0-+#"ʹ '!(("9ʹ("ʹ'"%-@
'0-% "/ʹ(-ʹH ʹ*'#'"ʹ $-"ʹ "%ʹ (-ʹ 4"!ʹ #H!'07"ʹ
,!!-+4*'%0-%&"ʹ70-/ʹ# -/ʹ260+4ʹ#"ʹ;%0-&&'3ʹ "ʹ1ʹ
--ʹ NN -7ʹ '-(Ơ&"'($-"'('"+40'%(ʹ"%ʹ&"(ʹ4*%"(ʹ
#10-'0-/ʹ ʹ> ʹ-/ʹ ʹ NN BF /ʹ !/ʹ("/(ʹ40'%-2!@
&-"'ʹ,!-Ơ !/ʹ*'7!"-&(ʹ"ʹ+*/ '0/%#0/(ʹ&Ơ2*/%"@
/0/2"ʹ#0/(ʹ ;ʹ +0/-6'"(ʹ&- ʹ;"&&"ʹ #%0-% 4*!"ʹ&"(
7"/(ʹ$-"'(ʹ& H ʹ - 1ʹ-.ʹ-ʹ "'%0-/" $- " !/ʹ
4"!ʹ%'*4$- '" g"%"/#0-%ʹ%'*!."'!/'+0/ ʹ ʹ1ʹ
H ʹM ʹ (%@2" &-ʹ#-'0@%@-&ʹ2"%%"ʹ $-;'"ʹ "//-*/"3ʹ
,* & ʹ!ʹ&ʹ&"ʹ$-"ʹ ((!#'!(ʹ2*!'*//"(Ơ204@
%- "ʹ > ʹ ʹ V 1#%0%&"ʹ 4&!(ʹ&-;'"#"&Ơ/0%!'"
U&"ʹ*80!+"'#"ʹ %0-'JʹO#*/"ʹ0! (-ʹ("(ʹ%8'0/(ʹU&"(
0-7&"(Jʹ'"%ʹ+0&6"!'"!("+"/%"!"(%ʹ "!:ʹ("!&(ʹ,!!04@
40'%-"/%ʹ2"%%"ʹ (!4'"+"ʹ&-;'"%8ʹ#*/%ʹ-&(Ơ;!("/%ʹ"%
2"%%"ʹ-/#"4"/#0/2"ʹ 0;(*&!"ʹ,!-ʹ&"(ʹ'"/#ʹ&"(ʹH!(
$-"'(ʹ#"ʹ %*-Xʹ&"(ʹ0/-+0!:ʹ $ʹ C ʹ%ʹ:-ʹ4ʹ%*ʹ
#0/(ʹ ʹNN?*&-;'"Ơ#-%ʹ$-"ʹ ʹ,!"&,!!/ʹ4*!"
(-7/-$-"ʹ5ʹ+*/%'0/%#"ʹ&Ơ$&"%# ʹ'#70-:&ʹ#",!"&@
,0!!/ʹ 6Tʹ,!!"&&"(ʹ/*!(ʹ(*/%ʹ;-"/ʹ$-;'"(ʹ40"ʹ/*%"
$"!%"&ʹR#4ʹ ʹ ʹNN %"'$-"ʹ2*+/-"ʹ!/ʹ 2*(@
(0-(ʹ 0 -"ʹ;"0!2*!4ʹ#!*'7!"-&ʹ &"(ʹ 2*((0-(ʹ,!!-&
90#-(ʹ #%0-"/%ʹ(*!'"/%ʹ0!ʹ("'-2"ʹ #"ʹ /*(ʹ'*-(ʹ40(K
(0/%ʹ4*!"ʹM%'"ʹ%ʹ;(@*'7!"-&&"ʹ Oʹ 0+(08ʹ&!-ʹ';4*/@
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40(ʹ #%*'//0/%ʹ,!-&ʹ 4"/(ʹ %ʹ2*++"ʹ #/"&*/ʹ "%
,!!-&ʹ(1":4'-+$%%ʹ24++" *((!"%5ʹ*"&Ơ(1044"&&";%'"
$-"ʹ2*++"ʹ !/ʹ 2*((0-(ʹ ! ʹ ʹO ʹ
ʹ E /ʹ#-%0!((->ʹ$-"ʹ2*+%/"ʹ %0;%+ʹ#!ʹ/*+ʹ
#!!/ʹ 6#'"ʹ#"ʹ'*+0/5ʹ"%ʹ$-"ʹ2*++"!/ʹ7!"!:ʹ
ʹ "'+" #"+0/;7"ʹ "#-%#!ʹ26 .0&4*!":9X-@
7 ʹ,!!-&ʹ("'"#"(("ʹ- "+"/%")&Ơ+*-/#'"ʹ40'*&"
,!!*/ʹ&-!'0#"(("ʹNN ʹ("#-%#"&Ơ2*/#!-%"ʹ#"&Ơ
"*/%"/0/2"ʹ#!ʹ%*/ʹ#"(ʹ02%-*/(ʹ#"(ʹ#-(2*!'("%2ʹ
/" 0%%-%!#"!/"#"+0'26"$-;'"ʹ /"+-/"$-;ʹ
6&*/2*"!"#!!/@$-"ʹ+;4'-(ʹ0'+#2*4%'"&"!'(%'0-%(
ʹ& 7ʹ ʹMʹ "%0-"$-"'"%ʹ "/("!"!-ʹ9!7"#"
%*!%ʹ? ʹ&/ ʹ! "ʹ*%!%2",!"!.*!(ʹ;%"(ʹ
4"'+-(ʹ#" #7"(ʹ+;4'-(ʹ#"ʹ$-"'(ʹ'"$'*-#-(("@
+"/%(ʹ2*/%'Ơ.*%'"$';'"ʹ-ʹ ʹ-ʹ ʹ ?ʹ
ʹ F !-ʹ(1"/*'7!"-&&-%ʹ#"ʹ'(0ʹ$-&&"ʹ'("#"%(ʹ$&-"#"2"%%"ʹ4'"$"K
'"/2" &&"(%$-;'"#"#"(0ʹ$-&&"ʹ'("#"/%ʹ$-"'#"("(
'-26"(("('Q'"(%%*!%$-"'#10'*&"ʹ;!((-ʹ "(ʹ0+*!'(
,!?Ơ'!'0&%*!%$-"ʹ#"ʹ(Ơ#;$-!%"ʹ *((;#0-%)"("(
8"!:ʹ ʹ-ʹ.--ʹ Bʹ /ʹ.0-/ʹ%*!%$-"ʹ#!!/ʹ
(0/7ʹ,!" ʹ#;(6*/*'"<ʹ*&%ʹ# ʹ1-&ʹ$!-%/"
#*%%%"<4*-/%,!"'$-"'(#"ʹ(Ơ#-(7ʹ2"ʹOʹ&Ơ6%#/"
6-"/%#% -&(ʹ/"9*-7/"/%ʹ100#02"ʹ 080<ʹ-ʹ
ʹ dQ!-Ơ#"(ʹ("/%-+"/%(ʹ/*;&"(ʹ"-".#(ʹ "(ʹ/!0/K
2"(ʹ(*/%ʹ(-ʹ#"&-20%"(ʹ,!!"(4'-%ʹ$-"ʹ"(%!/ʹ;& +"
+"$-;'"ʹ("%!/"&*!0/7"5ʹ*!"(%,!"40"(4'-%$-"
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%'*4ʹ$-;'"5ʹ#-%"(@&!-ʹ,!"ʹ2"&Ơ/1"(%40(ʹ;-"ʹ#!"%"
$-;'ʹ'*'> ʹ--ʹ1"+4'"%&"%'#%ʹ&Ơ7'0/#"ʹ0'@
+;"70'#0-"/%ʹ1!/ʹ"/8"'(-10!%'"!/ʹ%-(%%"%ʹ/*;&@
(-&"/2"5ʹ*/ʹ;%0-%)ʹ&Ơ$*-(ʹ%ʹ*4ʹ$-"'4*!'("40-/#"
"%%ʹ44ʹ":4"'-+"/%4*!'/1"/ʹ40(ʹ("/%-ʹ1-/!%-&-%;
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!26"$-;'"%!26"ʹ -7*!'!("ʹ"%ʹ60'#-"ʹNN /ʹ#-%
0/(0ʹI$-"ʹ 2-("0!'NNAd 0/(ʹ&"ʹ&0/707"ʹ $0+-&-"
7'0/#ʹ'"+0',!06&"ʹ*-&ʹ !/"ʹ$-;'"ʹ"%"'#"-"
Oʹ +*-/(ʹ,!!*/ʹ/";2*'26" 8-$ʹ9"ʹ4';#-(,!!-&
+*!'Ơ#0/(ʹ&Ơ4"0!ʹ#!ʹ4&!($-"-/(*&"/%
? ʹ ʹ- ʹ*!%,Ơ4*!'%0/%+1Ơ2*$&%"
!/$-"ʹ;0-("'(!"&Ơ9*!"-/ʹ1ʹ.ʹ 0"<@*!(ʹ,!
2"%6*++"@& ʹ-"/%'"2!"-&&-"-#ʹ!/ʹ$-"ʹ6"'-%0Ơ7"3
= ʹ B'-ʹ NN '*/&,!"+"/%ʹ*-&ʹ!/ʹ
$-"+0'2;"!'ʹ-&ʹ("((("%*!%"(!-%"ʹ -/,ʹ+-&&"
&-*++"(ʹ.*-&ʹ!/"$-;'"0'%/""T NN "40((07"0!ʹ
"/(ʹ4*4 -0-"#"7'0/#ʹ$*'%(1"(%$-#%40"&"("/(
#"$*'*!26"ʹ-*&"/%ʹ+"260/%2*++"#0/(ʹ2"'"'(>
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2 ʹ) &/"$0!%4*-/%,!".*!(ʹ$0((-"<%0/%&Ơ
$-;'"ʹ ʹ, ʹ ʹ--ʹPʹNN "%"/-"
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"!$26 %"&ʹ;*/(ʹ;0'*/(ʹ#" "0!$'"+*/%ʹ/*;&"(ʹ#0
-"//"ʹ4'"-!'#" "'78ʹ'-26"(ʹ#"ʹ ;&*/(ʹD*!;%0-"/&
&"(ʹ (!+*+(@#"(ʹ#/,ʹ4'-/2-40&"(ʹ+0-(*/(ʹ"0/@
2;"@ *+%;Jʹ ʹ = , ʹ$9ʹ%ʹ ʹ
> ʹ8-ʹ4ʹ ʹ#0/(
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0'+"(ʹ4*'%;'$*ʹ 11ʹ &!(ʹ("$0-%$-"ʹ,!"&-*/ʹ/"
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+*!&%$-#/ʹ'0-(*/ʹ ʹ4ʹ ʹ?*!&%$-"U2*/(-#;@
'0;&"J#*0-"ʹU-&J&!-Ơ$0-%*%'-"ʹ1ʹ4ʹ M ʹ:ʹ
,!-ʹ*!((("%ʹ$*ʹ7!""#*/Ơ%+%ʹ%6ʹ4ʹ'AYʹ$*"(%!-
U9!7"+"/%9ʹ$"*/(ʹ7!"(ʹ"/!"/%*!ʹ*/(ʹ4&!(ʹ$-"ʹ
U2'!"&Jʹ1ʹ4ʹ((**ʹ -"/ʹ(0 */(ʹ#" "!4"U(!ʹ&"(
"!4#-(J,!!*/,!"(%'"!ʹ$%ʹ-;!%JU-&J/1"/ʹ*%5ʹ-"
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!-4-%-;ʹ/1"/4ʹ-(-(%ʹ< ʹ ʹRYʹ S("46ʹ&!-
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;"(%"$"'"9 ʹ ʹMRʹNN:---Iʹ(ʹ /(-#!'Ơ&-ʹ0(@
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/*/"ʹ"/ʹ4&!(ʹ#"ʹ2"/%&-!(ʹ9 ʹ2+ʹ 0"+*!&%
U"&&"J#*!%*-%&Ơ;-("ʹ,!-ʹ"%ʹU;%0-%J%'0/260/(ʹ"%ʹ
$-"'"'ʹ ʹO ʹ-%"#-'0-$-"'"+"'"-&&"ʹc#ʹ< ʹ
Bʹ %ʹ(-ʹE-ʹ#"+0/#0-ʹ2*++"/%ʹ &"0.*-%/*/ʹ"%ʹ
,!-ʹ"&"&"%"5ʹ & /"ʹ$!'40(ʹ"/'"(ʹ+*-$-"'"#"
'"(4*/#'"#"(#0-7/!("ʹ1ʹMB ʹ"'%"ʹ"(%
+*!&%ʹ&"7-"'"5ʹ?0-(ʹ4"'%"ʹ#!0+-(ʹ"(%ʹ%'*4ʹ$-"ʹ
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2*/,!-'"/(-ʹ$-(ʹ-ʹ7'0/#"0'*-ʹ,!"+"'"-&&"(-
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2*/("'."&-ʹ(1"/ʹ(0-(-%;'!(,!"/ʹ(ʹC ʹ2
& ʹ%/ʹ ʹNN g"ʹ, ʹ"($&"'@0@;'0(
? *@'*/ʹ"2'-%ʹ0!ʹ4&!'-"& ?1
"/%'"2"(%/0!#-%($-"'X@;'0(ʹ2 ʹ-ʹ%6*@
7'046"ʹ,%%!*/ʹQʹ4*!%ʹ2*/#0+/"'ʹ1;%8+*&*7-"
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ʹ :+Iʹ(-"'0;'0(ʹ1"(%0/"+-(ʹU&"
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;'0(5 &!(ʹ$*"%/"$-;#"ʹ*-"U#"ʹ.'0-J#"2"(#"!:
$-"'0;'0(2 ʹ'< ʹ.ʹM)ʹ
ʹ?ʹ *+ʹ#!!/ʹ7#0/%ʹ,!-2*+;0%%-%2"/%'"
&-.-"'ʹ1;%8+*&*7-"(%2*/%'*."'(;"ʹ!ʹ0/7"'0!
1 * ʹ8.*-%1 ʹ ʹ#"(ʹ;'0(ʹ#"
%"'(!-.0/"/ʹ2"&Ơ!-&#1 4!&;"",!-"':4&-,!Jʹ%"
(!+*+#" !-&0!+&-;'"#" *;"%!-(20Hʹ40"
ʹ, ʹ1 ʹ1 "%'"%'*!.0/%1
ʹ2*++"(!+*+ʹ#" !-&0!+& ʹ2*+%*!%#"
-%-"(ʹ !ʹ2/%'0-'"&"(;#-%"'!(ʹ#!ʹ4*$-+"#"
- 1 ʹ8.*-"/%ʹ1 ʹ#"(ʹ;'0(ʹ.0-&&0/%(
2-%0/%'!"%'0#!2%-*/#%0-/"#!'+*8"/ʹ7"ʹ.#4*'%"
1 ʹ"%&("$*'ʹ ? ʹ6ʹ?*/(@
["(ʹ"% 1 ʹ$*%'ʹ:.-!(-;2&"ʹ 0/(ʹ2"(ʹ#"!:ʹ20(ʹ
-"4'"+-"ʹ #" 1ʹ"(%#-$$-2-&" ":4&-,!"
$- ? D$-;@"@+0/Eʹ /ʹNN F 1!/"+0@
/-;'"$-;'"ʹ;0!%0-/"ʹ"70'#"$-;'"+"/%ʹ?*-&,!-
2"/%'"-10+*!"$-;'"+"/%;.*&%"ʹ0 -ʹ
!-ʹ$-;'"+"/%0((-(ʹ"%&Ơ%%"-++*;-&"ʹ+ʹ>
&ʹ -"/" /1"(%4&!(ʹ-/#"2"/%ʹ-/-(ʹ,!"
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6ʹ *4$-;'"+"/%46-&*(*46"ʹ4*!'"!"9"2%%"
1-/7'0%-%!#"#):"%ʹ;/"'"%ʹ%*4ʹ("/(-;&"ʹ2"%%"
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"/2*ʹ&Ơ$-"%;/ʹ#!!/"/"/#0-/#-"/ʹ0/%%%2-
4*!.0-%(!"%&"044!8"'"(/;7*2-0#*/(4ʹ
.ʹ "ʹ/,ʹ ʹNN X /"#-%#" 1;%0%" 1 +"
#!!/"$"+"'"+0-/&"!("/2"0/'#'40((ʹ10+"!' "/%'"
!/ʹ0+0/%,!-40-%4*!'"!!--%0/%#"$-"%;3ʹ
& ʹ-ʹ !-'9"%"%"2*/$"(("5!0$$"2%0-/(%0'%%"(
8"!:ʹ!/"$0!(("$-"%;(*+4-2-*!%*+40+4"%%"(
+0'$;&-2-%;(ʹ%"+4"(0067&0/%"+*%"+"(0&"("
-"5ʹ ʹ67ʹ-- "(4*&"(*/%"!'4*!'"!&"#ʹ4&!(ʹ
#"'0-(*/ʹ,!-&/"4"/(0/%40-("(($*+"+"'!+-
1"(%40(ʹ(-+4&"+"/%0!4!;&-,!"+0-(0!ʹ#!ʹ
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&Ơ$-"%; *(*/""'*!&%"("ʹ%"/0+*!'Ơ/*!'7'0/#"ʹ
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#" %*!%"(ʹ.*(-%ʹ$-"%;(;(ʹ/ʹ-ʹ3
ʹRʹ "'+""#"4"-/%!'"-"%;#"%*!26"'2"&"K
/(ʹ S!&"(ʹ*+0-/#"#*//0"(0!2*!4&"4#"$-"%;(ʹ"
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' ?-' '* "/4' ' -%0&' ' #!' &0%-0'
" '#!' 7'"2' $%#O.E' ,!!*/' '044g%'" 40" 2*/9"2K
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p"&!-' ,!-' 0-+" 0 $-*&"'
'# $ ' - '7-/"8' ,
%' ' D$-*/E' ' ' "'+" 4*4!&0-'"' *!+!'"'
-=-//" $-4*/' '0 #!'$-*/' */ /"' &" $-*/' #*/ /"'
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20%#02;"/% é
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%"-7*!'(0H / /"' ' " $-*/ /"< 40(%0/%
3' # k 'Q+:*529B/0 8' ; ' 2B ; 2 <:<9+ B2'
2 9'?9' '+&4+2J 530 +2 G2 9
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+!(&,!'"-/(%'!+"/%0&" 40" #1;0;-&"(":"2!%0/%(' "%
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%'-&&"(' "%2' ' "(% #"(+#&*#-"(,!-' /1*/% 40(#%#
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&0/7070 #" &0 -;&"' 2&*-(*/' (*&-#" ,!-' (*!%-"/% &"
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'-"!'"(' -"!'#-%0!((-' ,!'" &"$-'+0+"/%2(*-% e%%0!'
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2#"(' "% ,!" */' (" '"4'#("/%0-% 2*++" #%0/% #"
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0/%-,!-%# 5 */' (-+07-/0-% ,!'" &"(2-"!:' #%0-"/%
%'#(@(*&-#"(' 40'2" ,!1*/'8' 8*80-% %*!9*!'(&"(+#@
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&"'&0/707"02%!"&' &" 2-"&' &0 .*e%"'2-'2!&0-'" *#&"(
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f*/%'" &" $-'+0+"/% "%&0 .*%-%" 2#&"(%"' 60/H &"(
;*-('260/7" &"(&-"!: ' ' ' - ' ' /"
-/$-/-%# #1!/-8"'(#"/% 2602!/' 0 (*4' $-'+0+"/%'
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;'-&&" #080/%07" #0/(&" $-'+0+"/% ,!" &" 4'-/2" #"
*/## /10 $0-% #0/('!*4"3 '= , ' ' ' '
5 ' ' "($"!:' #!' $-'+0+"/%' &"(0(%'"(/' #%"'0
4&!%#% &"($"!:' #!' $-'/:0+"/%' ' ' # "
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+"/%' " +0-(-' %'!-(U%18' %'*!."9 &" ?0/2"& (*!@
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0!' -"!' ,!'" 9"' 4'*$"(("" 4'-." 40" +0 +*'%#!'
;-"/' ,!'"9"' ' > ' 10/,!#'0/& ,'$-(2 0*!

#'2 ' ' &2552 ; '82 <B48253 530 : ; ; 2
+ 25' E:9+ 3 " & BJ2530 9B +2 ; 9+23 49 8.' 952
3B:9<2 82 @2332 2 8 8 3 9 B2 5 23 & BB4320 '
' - 1' $' "' '+' ; :B3 42 B 5.:8]0 +2 8.'
B2.2E 3 N C ' ::' +EB280 "?9 5M2 2 ; 28 +2 ; B.'
4& BJ2530 23 " .253 8: A 532 . 5? +2 ; B.' 4&:B0
' ' " ' 'A' &.83+2 5: ;'?92 <B254+2
3B48:B <9G+ .0 +:B8?9& ' 2A2B.2 8:5 .3 :5 .:53B2 +2
.:53B G9 G+20 S' ' $' <" ' *'NN 6 0 4 ; +
5 83B 3 :5 49 8.0 .2+2 428 5 5.28 <9G+ ?928' 28
2 ; <+:R48 49 8.' + 3 <2B ; 8 "'3:93 +2 ; :542 42
R254B2 <9G+ ?92 ; 253 49 82+0 23 +2 8.' 5&25 93
<+98 +2 829' ; B2G 540 ' ' ' '
4 58 " ' LL BF 5. 25 8R5:5R ; 2 42 $-"$'
:98 E:R:58 ?92 +28 B: 8 +29B 4:554B253H 9A 4J+
828 428 JB 548 8.80 .&283*" 4 B2 42 JB 548 2 80
! $ > " BBB'
-' (!' B:E25<' *' 28< J5' 23 3 +' * '
49 + 3' *, ' 8.0 < :<B2 ; 253 < 5 2B0 230 < 3 .9
+4B2 ; 2530 +28 < 5 2B8 4 58 +28?92+8 +28 .:+2.329B8
4& ; <438 ; 233 253 0 BJ253' 5 ' 3B48*G 25 B2 ; B
?94 4 58 +2 4 .3 :55 B2 25.R.+:<44 ?920 "' & B3 .+2
* ' ?92 +2 8.' 43 3 '95 <23 3 < 5 2B 42
@:5.8 :9 4&:8 2B0 9 ' ! ' " ' ' %
: ; 20 8:98 &2 ; < B20 *, ' 8 J5 3 +2 3B48:B < B3+
.9+ 2B 49 <B 5.20 < B:<<:8 3 :5 "' , '+2 3B48:B
<9G+ .' '
' 'Q *8\ +0 8\ * &/0 6' LL ' $9' <
< B3 253 9 8.0 ?9' .:5.2 ; 2 +2 _ . ' ! 3 4B28 8
. +28' B: 38 8. 9A' LL 0 $9' '<:9B G93 4& 9J
; 2532B +28 <B:49 38 42 & ; <43' .e' +: 8 < B9B253
<+9343 8. +28?92<:+3 ?928 23 . B +280 0 '<'> " '
OO ' ' ' ' B28*M4+4 < 9B +2 8.0 25 ; 9E 82
< B3' &283 95 G: ; ; 2 3B28* 8. +' 'R '428 4 ; 5 8K
3B 3 :58 <+98 8. +28+28 9528?92 +28 93B28' LL ' 5
2552 ; 253' B:.9B29B 8. 40 E: . 3 8. +0 5: ;'
4&: . 2B8 428@983 .28 82 J529B +28 ?9'R B2 ; <+ 8
8 253 +28 G5:3 :58 42 ; 5 834B2 <9G+ .0 23 B2 +
+ 253 9A 4B: 38 49 82 J529B 23 9A 534B438 2: ; +
; 958 "3:932+ 82 J529B 2' :98 E:580 +2 <B:.9B29B
8. + 23 ; : 0 .: ; ; 25.2 952 <B:2449B2 ?92 5:98
8:93 254B:58 E J:9B2982 ; 2530 ' ' > :50
,/ '8.' %' &=: ; ; 20 .&43 93+2 <B48 42530 ?: ; 32
+2 ; 5MR0 5:G+2 < B0 4:53 +2 <2B2 5&43 3 5' < B
5' 5:G+20 ; 8 <B:.9B29B +8.4+ :9 ?92+?92 .=:82
4& <<B: .= 530 <' ' 6 ' " , ' LL 5
4 3 89G83 53+E2 ; 253 +2 8. +' + R E 3 H 9 K
B J9 Rrl 95 .=2'5: ; ; 4 8. +0 2 ' ' 2' 42 .2582 9B
< G+ .0 '2 ' ' 'R' ' =2M +28 5 3 :58
49 ; 4' 42 0 9B:<20 +2 8. + 283 &: . 2B 49 ; +
33 832B4 <9G+ .' LL '8&283 4 3 4&952 4 J5 34 4 58 &4 ; +
< B2 J2B ; 5 ?92' &:5 E 3+ ' B 5.20 + ' 988 20 + '
92420 + '#:5JB 20 + ' ; : 3 4 42 & 2 ; J52'23 +2
8. + 42 ; < B20 44.+ B48 .:53B2 +2 829+ ; B?9 842
B 542G:9BJ0 - ' '3 ' :>, / '3'A. 0<' C
-' (!' B:E25?'23 28< J5' * ' '
49 + 3' * '42 *, ' 82
bI ! 'Q *8\ +2* ; 5/0 /' 4:+:
J8 ; 2' &952 ; 5 4B2 82 +20 E2.' 8. +32
'Q *8\ *+*34/0 ' ' LL ' R834 ; 2 42
+: 8 B2+ 3 E28 9 8.' LL ' 8<:8 3 :5 "' 2A J4B2B +28
4B: 38 49 8.' 5 28<B 3 42 8. +34
'# $ ' - *
' 6' ?9' 8&2 ; <+: 2 4 58 +28 428.B <K
3 :58 4&= 83: B2 5 J5 2 2549 23 R 253
49 + 3 5 ' < B3 . <2 < 8 ' 42 'QE:R'
E
3' 'Q +*88 * +:*B&/0 6' 2B ; 2 42 G:3 +
5 ?92' :53+28 . :B:+28 8253 254928
-' (!' - ' 23 +2 + 3' ' 29B
3' 'Q *88 * &/0 6' 2B ; 2 4&= 83: B2 5 39K
B2+2' $9' '42 +'3254 5.2 "82 254B20 "82 4 82B
< B 29 +238' 2G 32 88+2
' ' 3' ' 42 , ' 89< 5 42
' 254B2
3' 'Q *88 *+ *34/0 ' ' $9 +34 42 .2 ?9'
82 254' ' 88+34 428 B4: 828
3' + 'Q *88 *52B*E&/0 6' 2B ; 2 42 G:+
3 5 ?92' :53+28 29 +28 :53 4 ' ' 52BB9B28 G 428
' ' - '23 /,
3' 'Q * 8 *< *B&/0 6' 2B ; 2 4&= 83: B2
5 39B 2' $9' 82 B2<B'9 3 < B + ' 8. 88 :5 42 8:5
<B:<B2 :B<8
' ' - ' '+2 + 3' " '25 532B QE:R'
' ' ; /
3 'Q +*88 *< *B 2/ :9 3 'Q +
88 *< *B *3"/0 ' ' 2B ; 2 4&= 83: B2 5 39B2+2' ! :42
42 B2<B:49.3 :5 ?9' 283 95 . 8 < B3 .9+ 2B 49 3 .+
3 :552 ; 253 :9 82J ; 253 3 :50 23 ?9' . :58 832 4 58
+'8. 88 :5 4&95 .:B<8 :BJ 5 84 25 <+98 29B8 < BK
3 280 4:53 .= .952 .?9 2B3 952 2A 8325.2 "'
< 5
' ' :R'

'Q +*88 *^G*4&/0' 6' T 2B ; 2 4&G 83: .'
5 39B2+2' ' 82 4 3 428 ?9 4B9<G428 ?9' :53 3:'
< 248 4 R8 8 25 <+98 29B8 4: J38' 28 .= 258 23 128
+:9<8 8253 88 <G428' 5 + :50 < B.2 ?9& + 283 8W
<2420 B2882 ; G+2*3* + " 95 B 3 ?9' 283 988' 88 <G48
<+98 ?9&95 .=2E + 52 B2882 ; G+2 "'95 .= 25 C '
' ' 60 *' LL '82 4 3 988' 428 : 82 9A4:5'
+28 4: J38 52 8:53 < 8 B 95 8 < B 952 ; 2 ; GB 52
' 9G83 53+E2 ; 253' 28 88 <=428' '
' ' - ' 23 +2 + 3' " ' " ' < 24' 0
%' 'Q *88 *< *5&/0 6' 2B ; 2 4&253:+
; :+:J 2' $9' '+28 +28 254928 _58 +29B +:5J929B
25 GB 5.=28 :9 4 J 3 3 :58' LL# ' ' " , ' ; +2
4& 582.328 4< 4:<GB28'
' - ' 23 <25520 +2
n' ' Q *88 *B:*83B&/0 :4 ' 2B ; 2 42
M::+:J 2' $9' '+2 G22 2549' LL# ' ' " ' ; 5242
< 882B2 9A . B 234B8 8 < B 95 G22 + BJ20 "J2B2
; 253 .B:2G9 "'8 '<: 538 23 3B28*<B: :544 ; 253 2549
"' 8 ' G 82' 25B28 <B 5. < 9M ' = B:542+ 20 ; +
3 523' 0
' ' - ' '+2 + 3' , ' G22' '
j' ' Q *889*B *8 :5/0 ' ' 2B ; 20 4 +
4 .3 ?92' 3 3 42 .2 ?9' 283 25490 42 .2 ?9' ? '
428 889B28' 0
-' !' - , "
' Q *889*B&/0 ' ' ' ' 23 32 25320 2 2*
E 882' 28 889B28 4&95 ; 9B0 4&95 E 820 4&95 32BK
B 5' ' +9 ; GB2 <4543B 3 < B 952 889B2 4'4 '
.+: 8:5' ' J' >28 8 ?920 ; +JB4 +28 G BB GB28 ' +
; 25828 ?9&:5 253 882 8 58 .2882 93:9B 4? ; : 00:5
.B 53 3:9@:9B8 ?92 + E2B 34 52 8&4.= <<2 < B ?92+K
?92 889B20 6 'P' *!((' 'E ' LL 2B ; 2 42
J4:+:J 2' 889B28 42 83B 3 . 3 :50 0.2+28 ?9' a2< +
B253 +28 88 828 42 ; 4 ; 2 5 39B2 889B28 42 89<2BK
<:8 3 :50 .2+28 ?9' 82< B253 +28 .:9.3 28 42 4 E2B82
5 39B2' LL ' 2B ; 2 4& 5 3: ; 2' ; ' 4:55G " 4 G
B2538 8 :58' LL 889B2 42 + 82B0 889B2 8 3942 4 58
+ < B3 2 + ' <+98 <B: :542 42 + ' :882 J+G5:+42' LL ' 8
89B2 +:5J 394 5 420 <B: :542 889B2 ?9' 283 89B + '
+J52 ; ' 520 "+ '89B .2 89<GB 29B2 49 .2BE2 90
' 889B2 42 R+E 980 8#+:5 ?9' 8G< :2+28 +:G28 5
3GB 29B8 23 ; :R258 49 .2BE2 90 42 .= ?92 .N32
' 889B2 : ; G+ . +20 889B2 4 58 +2 : 2 ?9' +:5832 D
+'E2 52 : ; G+ . +2 .=2M +2 :23980 ' 889B2 420 ' '
B 320 8 +:5 ?9' 4 E 82 + ' .2 532B52 42 + 'B 32
' 2B ; 2 42 RG3GB 5 B2' E 8 : 5 42 + ' . :B52 0:9
8\G:3' ' 6 2B ; 2 42 .= B9BJ 2' :932 8:+93 :50 2 0
.:53 59 3G G3B: 32 23 <29 <B: :542' LL 88:B2> 66
& 5980 ; + 4 2 3BG8*4:9+:9B2982 23 ?9' .:58 832 0325
52 J2B?9B2 89<2B . 2+2 23 +:5J 394= +2' > B .K
39B2+:5J 394 5 +2 4&95 :8 ?9' 283 G+G' 28 889B28
49 .B"52
-'# 'S 6 8' 28<+ 28<2523B 5328 H492B 521
952 283 + BJ20 << B 5320 < B + ?92+2 + '49B2 ; 2B2
<923 H<2938 283B2 B2920 & 93B2 283 283B: 3208' . : ; ; 2
A9B20 #' ' ! E 0 6 %F' LL S 6 8' 2 :R2 '
.: ; ; 2 952 889B2 23 <23 32 4 E 8 :5 < :9B + 882B
< 882B + 'E2 52 9 ; G+ : +20 ' 'AE' =
' ' 3' , ' 42 , ' 89< 5 42 S
'QE:R' % @' ' " ' 0
'Q *889*BG* &/0 ' ' 2B ; 2 42 M::+
+: '2' 25B2 42 ; :+98?928 " .:?9 +2 95 E +E20 :+
5 ?92 23 <2B.G2 9 8: ; ; 23 4&: '+2 5: ; ' ' 8G9
B2+2 JB2.?92 283 ; 5JG2 "' ! B82 +2 8:98 +2 5: ;'
4&:B2 +2 42 8 53 2BB2
-' (!' ; 593 '42 ,
3' 'Q +* 89*BG*+ G/0 8' ; ' 2B ; 2 42
M::+:J 2 & 5 ; + 42 + ' 889B2+2 ?9 0 :B4 5 B2
; 253 3B:< JB 54 <:9B 325 B 4 58 + ' .:?9 2080 3
3 .=2 9A .:B<8 8:+ 428 8:98' ; B 58 9 ; :R25 4&9'
< 24 ?9'E 253 82 @: 54B2 "'+ ' . :?9 +2' D
' 'Q *889*BG/0 E' ' ; B ; 2 4 4 _ ? 2'
E 82B < B 889B28' LL 2 889B2B0 / ' ' +3B2 4 E 8G
< B 889B28' 2B3 528 B: .=28 82 4G8:BJ 5 8253 8:98
& .3 :5 3 ; :8<GGB ?920 2+28 82 889B2530 <9 83: ;'
G2530 0 ' * +, ' FN 0 3' 5 0 <' ' b
-'# 'S 6 8' 889B2B0 7
' ' - ,
%' 'Q 83/ ' 060 ' 82 94:53 +2
5: ;'E 253 428:5 .B ' 830 83 + << B3 253 "' &:B4B2
428 < 882B2 9A 23 9 J25B2 :9E2332' G
%' 'Q *839* N*B&/'EN H& 6' 2B ; 24 4 .+
3 ?92' $9' 283 <2B.2 4&95 <2B39 8 4 583:932 8 '+:5+
; 29B 1+ 0 #' ' 25B2 42 <: 88:5 :8829A' LL &'# ' '
25B2 40 +J928 ; B 528' L' 25B2 42 ; :+98?928
E E 53 4 58 +2 8 G+20 +2 G: 8/ +28 < 2BB28' ' 8
3:+ B2 ; 88920
-'# ' ! J 8' ' J9B2 428 532833:8 283 7
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< ' B B ?'#!"+"/% (!-' "/.-"!(1O'*-" !/' $!(-*/'#"9H8&*/"' "% "/' &O $&O+;"' #" &O $*!+O-("

;O-(-"" (O.*'g' " &O '*(" ,!-' (*"$U#*!:J $&O-'"' O'#"/%" 9'$

1'YYXX' ' "(O-' (" 4&!(.*!(%*'26*!'U2"J ' # $ ' O% / ' #-+-/!%-$#"

O ,!*-' (!-' 4"-%(O/(5 /' #-% ,!*' +*'%-"'("%(-#"($&O++"'#!*!' 1 ' 1

&"(O!(U1O--J $&O--O/(' ' , ' '# 1'/'Y(('NN:.-I'(M+O% #' ' D$&O/@; ' ; "E' " ' "

!8"' &O 3"!"' &" $&O-'"' 1O%%!26"+"/% "% &"" ' I O((' ' &O $&O++"' /" .*&O-&&" $&O+; "'

7*!(%' ' $ ' AM' %*' 8' O44&O!#-(("/% #!O!@ & I' "'+"'#!;-(%*-'" /O%!*"&&"' Q!-'*$$'" #"(#"(@

%O/%, !!-&(9' $&O-'"/%#"70-/' "' 1'"((' '$&O-'"40'@ (-/(*/#*8O/%(" "/'$*'+"'#" $&O++"("(NNYI' -7' "%

%*!%U21"(%@-@#-'" -& (1"/%'"+"% #"' %*!%" 26*("J' $&%+-&- '"+"/%' !-/ ' 4""#!' "/' 4O'&O/%#"(4"@

! ---' (//"(' 1"(% !/' 6*++"' $&O+; ' % 2*++"/% -&

X' ?' "''8' , ' gO&&*/': '4!"'5'4'*@ %O-% $&O+; ' - .*!(/1"!((-"< '/*%'"40%%" *!(@

V "/(' '2O%O&' 4 '4*'%!7' '#!' &O%' %'O-% (O # ;-&" *++*4&O%"' ' 9 ' .'NN */%

' O.*-" #" 1*#"!' ' ,!" &"("%8+*&*7-(%"(*/'/"4"/%'-"/"(4 '""' "/' 4O'&O/%#"#!!/"/O; !/' O$$O-'"'

%-'"/%#"&O 40'%-2!&" ' "% #!' 'O#-2O& ' O/(2'-% 1"(% !/" O$$O-'" $&O+; "'&"'%'"+";&" ,!" */#-@

'O.*-"#" 1*#"!' 26 '- /" (*-% $&O+; 5 -& 8' O %*-(O/(' ,!"9"'2'-"' >

' D$&6@'"!'E'#' 'NN I' "'+" e+-&-"' /#-26"' -' */#-26 '-' 9 ' = ' #& ' R

"&!-' ,!-'$&O-'"' NN /' $&O-'"!"' 2!-(-/"' !/' 40'OK 9!-&&' AM' % .*-&' +O 2*+ #-" $&O+; "' 4*!"

(-%"' O-((*/(&-%2"(' $&O-'"!'(#"'2!-(-/"' "7"'%%%"' 4&O-'" O!-' 4'-/2"(' +O6*-/ %O/(2+' ?O''

&"(9"!:"##$"/#!(' ' ' ! , ' , O ' - ' .' Y'NN d #' ' &O+; ' "(4"2"#"#" 4O4-&&*/

(2' M' d -7' "&!- ,!-'#."/%" !/" O$$O-'" ? ' D$&O/@; E' ' 'NN d &!(-"!'(" +(

'# $ GI *%'" 2;"(' &*/7!"(#!"/.-'*/%'*-(4-"#(' 9*-/%"("/("+K

$ ' D$&O@+O/E' ' ' "//" #" 260'@ ;&""'"%4 */7 "(!/'2"'%O-/' /*+;'" #" $*-(#O/(#K

4"/%-"'" #" +O'-/" 20'% #"'(#M4-"#(#" &*/7' &O 2-' "'260!#" "%$*/#!"' ,!!*/'&O-(("O4' (7*!%@

,!!*/'$&!%O!:' ,!-&%'(#"(7'O/#(;#%-+"/%(%" "% "'"$$-#-' "% ,!!*/%&!+" ,!O/#!'"/O; "%

%' ? ' D$&O@+O/@#1E 6' ' *'%"' $&O@ (*-/'4*!" 2&O-'"" #-+(&"('('!"("% #O/(&"("(2*!'(

+O/#"' 4*'%(2*+4*(#" #" #"!:'9O+;O7"(O."2 !/' "(*+;'"(&"("($&O+;"O!:' &"(2'-("%-"!/"2"' '

2*!'*//"+"/%" "% !/" $"'+"% #" 7"-&&"'(#" $""'"' ' *4*!'-*/-*/(@/*!(40(0."2 !/4"!' '

!'#" ;-(' NN ' ' /2&"/4'#O/(" ,!-' "%."/!!" #" $&O+;"O!:' /-"%%"'"$"'"$/#O/(#O-/(-&&" (-40'+-

#"(&O-/O/#(' -'#"2"%%%" #O/("'NN DH%' '#" +"@ /*!(-&- %O-%4"'+-(#"$*-'"&" "'#" +O&%"

/!-("' +"' 9':;/'4' M' "(%*!4"(%O-/%H ('&"e!@

? ' D$&O@+O/E' ' ' -("O!'#" 1*'#'"#"(3 -&"' &O $&O+;"O!#!%O +O-/5 !/" e-;&" 4*'%!@

#2;O((-"'(' O-/(- /*++# ' 20!("' #" (*/'4&!+07" ;*-(/- &O $&O+;"#!(2!#" +O-/(-"'%"'%!"

#*!&"!" #" $&O+"' "($&O+O/%(' ,!"&" 4"'"#"!' $"/("#%' !$*(O'"'9' 2*+ ;&' 9O-'%"("'"!&"(#"K

""%"044"&&" $&O+;O/%(' (*/%#"(*-("O!:'$*%6O!% $&O+;"O!:'/$"' + (#O/(("#"(28&-/#"(#"2"-(%O&#"

%/*/%#(' &' 9 ' ' & ' %' .+'4' B) '*26' 2&O-'O-"/%&"("#6*'(/%1-/% '-"'!"#"&O (O&&"

' O I'(' %' "(%*-%&#" 4"*/07" '*!7"2'O@ '+O/7"' "O * ' ' 14'(' 'O-@9" 'S*-/#'"

+*-(-'2*++"' "(%2"&!-#!!/' 46"*/-2*4%"'' ,!-' "/' */'(2"4%'"' 4O/7"O!' (2"4%'"' #"" +"(4 1" %&"(

O/7!"#*2 "(%044"&# $&O++O/%' ' O ' -.' - $&O+&+!'#68+"/'O!:$&O+;"O!:'$!/"O-'"(3' '

'# $ ' -% 4*!" ' '*!' 1 'D.*85 ' A' &O+;"O!"#"4*-/7' $&O+;"O!"#"2-'" A

@ ,!!*/'4*'%"' &O +O-/' /'"/%"/#-%!/"/'4"%-%" ;O'K

%' ? ' D$&O/@;O@1E' ' ' 2%-*/'#"$&O+K ,!'5'*/'#"+O/#"/'2QO!-.O& 3 SO.O-(+O' 4O!("

;"'"&"(%*-&"(#"2%*/'4*!" ;'$&&"'#" #!.'% %*!%@4" %'"'"' 4"'+"'+4(9" .*-(*'%-" 40"

'# $ ' - 1 &O'4"%-%" 4*'%'"' ?'#" O.O#-/'O."2' 2-/,*!'

? D$&O/@;O/' ;O/@$E' 6' &O$&OH"O!:'#"4*-/7'#".O/%&!-' (' ,' = ' '("4%

I Q!-$&O+;"' "(2*!'(-"'(#" ;H!(O!:'$&O+;"O!:' &O +O-/'+-/7"'#"(#"(#"(#"('$&O+;"O!:'

;O/%"(' /O'-/"(' ' O 4 ' -'4' ' -"/%#% MAM' ':$&O+;"O!:' &O!+-/%"(#"('$&O+;"O!:'

-&(O4"' ,!'"/%&"!'(+;'"(%" ?O'-"' ,!- ."/O-/"(' "!:' ,!-$&O+;"O!:' A

O!@#".O/% #!"!:' / *' #"(*/(' $&O+;O/%" *!("4*!/'*(*!'#(*!'#"$&O+;"O!:' M '

/(' ' ' 3 ' NN -7!&O-/"+"/%' /'60;-% 4&O-(-"#""'"9"!/"((" 4"'4"'!*!'!"#" +"%

%*!%$&O+;O/%"/'"!$"' !/' ;O;-%*!"/'"!$"'%O80/%' ' +*'"'"/"(#"("#"(#"(#"(+-/#"("#!!/' O!:' O O+K

2O!("#"2"2*/%"/!"("#"&O/%/'+-#" ' ;"O!:' 'O 7' NN -7' O'2O26"O!'

2O!/("' #"&O+;O/%"/'%*!%"' 0!'"0'"&O%-*/' / "(4"%"(#"(#"(#"(#"' 4O'"/%"' '&O/&&"(#"2O'

&O(*/'Q!-(" &O '2*!'"/%"/'#"' ' $*!'#"(#"+" A ' 'B'NN I "'#"(#"'%*!'"(#"(#"(#"(#"("

' O I'(&"(2*'4(7"/'+O!:' 4"'(2"4%'"(#"/O+;O/%'!'"(9" 7*!'"

+;O-%"(4*!'#"+O!'%&'"' O I'(' $&O+;"O!:' 44"'@

;O/%"('4"'(%%"!4"('(4*'" O 4*!'#"4'-%'"' 4"'(4"'+O'%"('%"('%*!'#"(

H;O/%"!'"(-/&"('*-/2"

$' D$&O/@;O'E' ' I I *+'#*//#

40" &"(+O-/(' 2O("O!:'/"' $&O+;"O!:'%O-/"' O-/%"

H I "%-/'*/"!'"('*!'"' 4"'!'"(@2%O/(1"'4O/%%' " *'+O/K

#-"' ' Yd *+' ,!-'(%%#"!'"('"(' 4'-(

'O%"(4*!'#"(/*!'"(

#' +O/%" '" 2"" ;!'"($&O++O/%"' ' NN I C @

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"% #" &O $!+#"' NN RdM'O-(("(/#"(*60'2!%-"(

'"2!"-&&"/%-' &O (!'$O2"'#" 1"O!'#O/(&O,!"&&" -&(

$*/%2!-'" &"(#-*!"'(&O-+"'4"'!'"

#%"'"+4&*8# O!2!/'("(7'O-("'O44"&&"#"'$&O+;O/%"

4*!'@ "(-+O7" #"(#'04("(("("7"(+O-(("!&"@

+"/%#!'(O-/#*/'"(#O/'"(;O/2'"(

' ' O*$&%% M)'O'D'MY' NN d O+-&-"'"@

+"/%*!'$"'8"!:'2*++"/%'!'"/%#!'%*!'%"(%"'&O@

+O(,!"'"/"+"/%#"(#" 20+O.O&

@@' 'O I'(' &O+;O'%&O/$&O+O/%%9' ' ! '

-' ?' - 1

? ' D$&O/@;1E' ' 'NN I' !'4'*4'"'%-/!(-%#'

/- ' %(' ' %

<B254' <:9B .2 ?9&:5 B2<B2B2532 R2.' 95' + ;G2 9

8:3<:9B .+ B2B 8:3<:9B GE +3B' 2 + ;G2 9 42

&=R ; 250 +2 ; B J2' +9 ; 2B +2 + ;G2 9 42 &=R

; 250 82 ; B 2B' ' 93 G 25 ?92 @2' <+29B2 ! :?

58258 G+2 ; 53 :B4:552 ?92 @2' ; 29B2 3 ?9 54

&=R ; 25 <:9B 5:98 +9 ; 2 8:5 + ; G2 90 & 32 53

42 8' ; 50 <:9B ; &:9EB B+2 3: ; G2 90

0 N' H 8 5&:53 <: 53 +9 ; '+2 + ; G2 9 4&95 GRK

; 25 :4 29A0 " ' .= +2 00 2.G2B.G

E:3B2 +2 23 4&95 =R ; 25 8' G2 9 293 4 58 B:2

2 ; GB 8 2 +9 ; 2B+2 + ; G2 90 '$" ' 0 ' &=R

; 25 5&283 <: 53 3:9@:9B8 253:9B '42 + ; G2 9A0

0 ' EO "' LL 2 + ; G2 9 42+ ' J92BB20 42+' 4 8

2:B42' 28 E: 8 58 4:53 +28 <B 3 ?928 2 5:8 B J28

4: ; 283 ?928 53 +9 ; '+2 + ; G2 90

+8<:B32B 253 .=2M 5:98 +2 + ; G2 9 42+' J92BB20

! ' A ' & ,1' 0 ' 2332 4:<3 :5 H42 252

4& 5@:9 < B >2 552]I' 93 95 4:9G+2 + '2 9 42

48.:B42 253B2+' B 5.2 23 8< J520 'A , '

C"' ' 2 + ; G2 9 42+& ; :9B' 8R.= '5&283 ; :0

@2 52 89 8 <+98 & ; :9B 90@2 B: ; <B ' ; :5 B.0

@2 GB 82B ' ; 28 + .G280 >& 32 54B '@98?9&' ; :5

+ ; G2 9 >2+ 882B '+ 5J9 B+'5 39B2 93: ; G2 90

! '0 4 '3' ' &283 ; :'?9' ' ; 8 +2 + ; K

G2 9+ ''4 58 +2 82 5 49 .= 832 + ; ?920 #'

+ ' ' 2 + ; G2 9 42+ 'E 20+ E 2 ; ; 2 ! 29B80

; 8 ?9 332 49 ; :58+' E 2 E2.' .+ 30 32 58*25

+2 + ; G2 9 4 58 +2 8 5J 42 5JB 30

0 2 '@:9B8 <B 38 '82 .:589 ; 2B 2 + ; K

G2 9 49B2 25.:B2 23 <253 82 B +9 ; 2B0 '0

0 ' 3 42 E 4 32 53 B +9 ; '+2 95 e 9'H

B .210 '& ' 0 'LLO8 28 +9 ; B28 ?9' .+ *

B253+' B 8:50 &28<B 30 & 532+ J25.2' 83*.2 ?92

+2 ; :542 5&' <+98 G28: 5 49 + ; G2 9 42 +'4:.K

3B 52^ " 0 4 '"0 4 58 &=: ; *

; 20 E252M 9 30 5& *+ < 8+' B 8:5^ &283*.2

< 88:5 + ; G2 90 8:5<+:32 +42+2^ '# 'E 9'

5'283 3B 5J2 ?9&95 =: ; ; 2 H 2X3:5 3 <9 B2

42 32+28 42.:9E2B328 ; 8 .23 =: ; ; 2 &283 82BE'

49 + ; G2 9 4:8 ; 3= ; 3 ?9280 +2 829+ + ; G2 9

? ; ' .+ B20 ' = 'A'=' ' 4 .' 0

: 8?92 3 'B 8:50 < BB J2.:5 B ; 20 :9B .+ *

B2B3 : 32' <B 3 3 8:5 + ; G2 90 'U ' 0

58 +2 83R+2 +2E' :9 <: 3 ?920 82 4 3 428 <2B

8:5528 ; 525328 < B +29B8+9 ; GB28' + 35G 8 9A 42

5:8 .:582 +80 <B 3B28?9' ; &2532542M0 .'

' 0 '3+F6 2B ; 2 42 ; 23 + ; G2 9 42+'

3 3B2 4&95 5.25 + EB2 82BE 53 42 J9 42 9A

3 58 .G:329B80 LL + ; G2 9 42 8 J5 9A0 B3 .2

5: ; ; 988' 29 :9 B3 .2 42.:582BE2' LI' 2B ; 2

42 G:3 5 ?92' + ; G2 9 49 B:90 .2BJ2 < 529A0

* * , ' , / , ' = 'LL ' = 94 2B2 4 58+ ?92+2

:5 _ 3 & <B29E:' 49 89.B2 <:9B +2 B 52B 58'

4 32< B.2 ?920 89B+' 5 42 &:< B 3 :50 :5 3 95

29 8 'E :+253?92+' ; 882 49 +9 42 82 ; G+2 3 5.2+2B

'# 'S 6(' + ; G2 9A #"!/"&-.'"&O 4-"2"'

A ' ' NN:." (' !-#"(@%!' 40"%O 4&O-/%"'

!&"." '!/'%+ ;"O!' %#!!/'" ."'"("%"-/%"' O&&/@

+"'"&"$&O+;"O!3' ' 1 ' A' * '^='&-*/J

&&!+"#"("("8"!:'&"(#"!:'$&O+;"O!:'O #"/%('

0MM' * ' '"/"<'2"(260/#"&-"'('.*!(O!%'"('>

O&-"/"('+*/(-"!' "*/"/(%"> *!(+"'$O-$%"('7'O/#

#"(4-%' ,!" /* #-%"(@.*!(2"($&O+;"O!:'3 &((*/%

#"'"*/'O'7"/%' ? ' - ') ' & /" &O-((O40(

/"O/%+*-/(#" '"(%"'"% 42 (" 4&O2"'"&"(*-"'"/%"'"

:2.-!' '*-(260/#"&&-"'(' '$&O+;O!&:' ' ' %"'

,7'4'Y B' 5J 260/#"& ""#!O'7"/&'$O-2%"/"

&8*/'4*'%O/% !/7 $&O+;"O!:'"/' &O 7!"!' " %;

-' ' !' - 8 '8 53:5J' 2=+ ;G4

3' ! ' 'Q+ 5*G 2/08' ' 29 .+ B 42 G:9BB 2

:9 42@ E2+2' 328 952 + ; G 2<:9B 5:98 8 .=2B

^V,' !' - 1

' Q+ 5*G /' LL 6 3' ' >232B 42 +'

+ ; ; 2' 2 G:8 82.' + ; G2 <B: ; <32 ; 2 3' HL 9G

83 53 E2 ; 2:3' $9 540 9 + 53 e'49 2903B: 8E 2+28

B2.= J5228 5B253 < 8.: ; <3 8 '/2 >3 # 'A'

' J' 9 8 3:93 + ; G 53 42@: 2 25 B 5.2 B2E2

5 530 '-" 'AE' B B:580 <9 8?9&25 5

5:8 .:29B8 + ; G25325.:B0 9A 48.:9B8+B ; :R 538

+2 =:.' 428 .:9<28 4&:B0 E' DT '9 7'N'LL 'H'

882B ?92+?92 .=:82 < B+' + ; 2' + ; G2B 428

G B428' LL ' 2B ; 2 42 .9 8 52' 882B '+' + ; ; 2

4&95 29 .+ B 952 E:+ +2 :9 93B2:82 9<9 ; '<:9B

25 +32B +28 <23 328 <+9 ; 28 ?9&:5 5&'<9 3B .=2B E22

+' ; 5'LL '82 4 3 988' 49 .:2=:5 23 49 .:.=:5 42

+ 30 ?9&:5 < 882 '+' + ; ; 20 <:9B 25 GB4+2B +28

<:+8' ' B2 3: ; G2B 89B 95 .= <:50 89B 95 .:2G:5

42+ 30 89B 428 +:923280 ?92+?928 J:93328 42 + B4

:5490 ?9&:5 B>+9 ; 2 23 ?9&:5 3 + ; G2B'LL"' + ; K

G2B 95.= <2 90 25 GB9+2B +28+:5J8 <:+8'H + ; G2B

+28 .9 B80 +28 4 8<:82B 'B2.2R: B +2 89 'LL + ; G2B

95 . 5:50 B2 GB9+2B 42+' <:94B2 424 580 E 53

I'

[illegible]

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M)

9 */8+"" -/!(-%M #"" $&O/"!"" '8' O' !/'" #"" +"(
0+-"(,!-' (""O' ;-"/' $&O/-"'"" O' 2"(/*2"(@-O' "% 9""
(!-(;-"/' $O26# #"" /18' O%'"40(' .*- ' = ' GY
Q ' ' D$&O/@[O/' [O/@$E' 6'
V$"'+"" #"" $*'%-$-2O%-*/' /7&"' ;O(%-*/' $&O/,!O/%'
2"&!-#*$-' */' #"2*!''"' &"" 4-"# #"($*'%-$-2O%-*/(
#!!/"" 4&O2"' #"" +O/-H'"O'"/'#"$"/#'"" &"(O44'*26"(
' Q $-' ' D$&O/@["' [""E' "' ' '" ' #""
$&O/,!""' G' NNTV *!'%-/"" $&O/,!#"" #!!/' ;O(%-*/'
'-F' O'/-' 40"' &"" 2#%#' !"' !/' &-".'"" $&O/,!-' #"" (-;'
4*!&"%(D-%-,!"(1"&"'O-"/%%'*-(&O4-/('O/-+O!:' #*@
+"(%-,!"('(*!' # ' !-'NN "//"#"" ;&O(*/' " #-%
#""%*!%"(&"($-7!'"(,!&"/'*/% #!O!%'"(O'&"!'(2#%"(
' Q $-' $-' D$&O/@[""' [""E' "' ' '" ' #""
$&O/,!""' ' /' 2*!4' #"" $*!"%$&O/,!"' %'O."'@
.-(O7"
Q ' D$&O/@["@+O/E %' +'NN d "'+""
#"" $*'%-$-2O%-*/' 2%-*/' #"" $&O/,!""' '"(!&%O% #""
2"%%"" O2%-*/'NN d 2%-*/' #"" 4'*%"7"" " &"" $&O/2' #!!/'
2*'4(#!O'+#"'#!!/' ;O%O-&&*/
-' # 9 ' - +, ' V
' Q ' D$&O/@[#E'/' ' NN F "//"#"" $*'%-K
$-2O%-*/' ' (" #-% #"" &O 4O'%-"#!!/"" $*'%-$-2O%-*/' ,!-'
"/' .*-% !/"" O!%'"" #"" $&O/2' O(%-*/(,!-'$&O/,!"/% &O
2*!'%-/"'NN */(%'!-'"" "&".""(&O 4O'%-"" #!!/"" $*'%-K
$-2O%-*/' ,!-' #*-% "/' $&O/,!"'" !/"" O!%'"' &O/,!""
!/"" +!'O-&&" O."2' #"(%*!'(' O .-&&" $-%O-% 2&*("
#!!/"%"'-4&" +!'O-&&" 6O!%"" #"" %'"/%" 2*!#' "(' (O/(
#"(4O'O4"%("%&"(%*!'(,!-' &"($&O/,!O-"/%%*!%' O
1"/%*!" 4O"' H7O&"(#-(%O/2"(' ' ' */"
:>,/' ' 4' -(' #O/(' DN d "'+"" #!O'@
26-%"2%!"' ' (" #-% #"(*!.'O7"(*!'*'/"+"/%(,!-
%"'+-/"/% !/"' $O7O#"' "(4-&O(%"($&O/,!"/% &"(
"/2*-7/!'"('NNYd f%'"" 4&O2"' O' 2M%# 2*++" O22"+@
4O7/"+"/%' Q!O%'"' 4&O%(' $&O/,!O-"/%' 2"%' #/*'+""
4 %M' %i "'+"" +-&-%O-'"' 4&O2"" (!"' &"' $&O/2
#!!/' ;O%O-&&*/'#!!/' 2*'4(#!O'+""4*!'"&"" 4'*% 7"'
/''"7-+"/%#"" 2O.O&"'-"" $&O/,!O-%&O#-.-(-*/'NN O"
":%"/(-*/' $'O44"" #O/(&"" $&O/2' #!!/' "//"+&' ,!-
"/%'"4""/# !/"" #""$"/(" *;&-,!"
' : . (' O' %"(%""#!' ;O%O-&&*/' +O',!#"" U J
#-$$-2-&"+"/% 4"!% "(%"" 26O7"' #!O!%O/% ,!"" #*
2*(%# #!' ;O%O-&&*/' +O',!"' 2*++"
O!((-' &O #-%"' %"(%"" $O-% &"" +"(+"' "$-$"2% "/' $O."!"
#!#-% $&O/2 ' "/' (*'%"",!"" &"" 4""-&' "(% 7'O/# ' &O
2O.O&&"'-"" #!O%%O,!"("/#*'-%"(,!-' (1"/%"@
$&O/,!"/%' ') ' "(4"!4&"("$$'*8"'< #""
6*'"!"#"(;O%O-&&"' (&O/,!""'/% &"!'(2-%"'< #""
$*((" "% #"" +!'O-&&"" ( )YR' /%'" %"&&"(;"O!@
%#("1"(%*-% &O #O+"" &O +-"!:' $&O/,!#"" "% &O 4&!(
6O!%"" ,!!-&' "!%9O+O-(."!"' ' ' !
4' YMM' #O/(
' # $ ' - * ' /' %'*!."" +, ' O."2' &"" ("/(
#"" ' ,!-'O' !/' $&O/2
' Q ' D$&O/@[#E' / ' "4'*2' 4*4!&O-'"'
O/2"" !/' 2*!4' 9"%""' ;'!(,!"+"/% ,!"&,!"" 26*("
',!"&,!!!/' &O/,!""' !/' 2*!4' #"" 4-"#' $&O/,!""'
!/"" O((-"%%"" O' &O %"" #"" ,!"&,!!!/' &"((" ("/% $&O/K
,!"#"(2*!4(#"" ; %*/'NN &4'""/#O!((-4*!'"#7-+""
!/'/*+'#"" 4"'(*/O"' S"" .*!($&O/,!"" &O 4*'%-
' " $&O/,!"'' / ' " 9"%""' ' $&O/,!"" 2"/%'"
&"" +!'' " $&O/,!"" #O/(&O ;*!"' ' (1"a%$&O/,! '
4O"'%"'"'
-' (!' "" 4O'O-% %'"" &"" ."'; "" +, ' O."2-/K
%"'2O&O%-*/' #!!/"" /O(O&"' "4"/#O/%*/@2-%"' &"" (2O/@
#-/O."" : 6' $'O44"'5 O/7&' ' &O/2"'
' Q ' D$&O/@['ES' ' ' ' #"" +-&-K
%O-'"' 2&O-'"!'' %-'O-&&"!' (&#O% ,!-' +O'26" (!"
I"' $&O/2 #!!/""%'*!4"" 4*!'&O' $&O/,!""
' - +,
Q ' D$&O@[1E' ' ' "%-%"" +O'"" #!"O!'2'*!4-(@
(O/%"' /' /"" 4"!%' O&&"" #"" !"#"" "/' *'. 7"" ,!""
4O"#"(#"$-& (O(("< #O/7"'"!:5 "%' ,!O/# */' &"(O'
4O(((' */' "" /2*/%'""' #"" #-(%O/2"" "/' #-(%O/2' #"(
$&O,!"(#!"O!' ,!"" &O' +"" 8'$*' +"" /%'"" #"(' '*26"('
' ' $$$' B
' O I' (' *!(' 4*-((*/(,!-' /'" ("/% #"
$*(("" "/%*!"$*'%""(("'2*++"" #"" $&O(,!' (' *!' #""
'-."'"(' (*/% %"/!(' 4*!'' +"!;&"(
' ' 4' Y ' #O/(" ' %9!"" +O'"" *!'
$&O2"" * -&<4!-(("/% ;*-"'A , ' 'O/5' Q!-%"'!."
&"(7'*(*-("O!&:' #"#O/('!/' "%O/7 ,!-'/"((*-%+-""
7'O/% *!' "/' !/"" ;"&&"" $&O26"' 1' -: : : ' / '
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+O'26O"% (O-&&8*!' (" +-(%"/' !/"%4"-%"$&"(,!"*@
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&O%' * ' * ' #!' $&O+O/#/ *) ' &-"!&X('O!'
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+O'""
Q $-' $-' D$&O@[' ' ["E' " ' " ' ' /' ."'""
#"O!' $&O,!' ' &O $-7!'"

& Q $-' D$&O@["E' ' ' /"" 2"'%O-/"" ,!O/%-%'
#"" &-,!-#"&O/2 "" O."2' $*'2"
' ?' - +,
%' Q ' D$&O@[E' / ' "'+"$O+-&-"'' S"%""
O."2' $*'2"" !/' &-,!-#"' ' U 16*++"" #-(%'O-%J *!;&-"
#"" ;*-'"" 4"/#O/%%*!&"" #-/""' *! (1-&(1"/(*!.-"/%'
"%,!!-&%'*!."" ,!!*/' &!-' #*//"" %'*4' #"" .-/' ' "/'
$&O,!"' 4&!(#"" &O' +*-%- ' O!' .-(O7"" #"" 2"&!-' ,!-' "(%
'(O'#*-%"'
' # $ ' CO&&*/' ' " ("+;&"" !/"" /*+O%*/
4 "#"" *
%'O' Q ' D$&O@[E' / ' ' "'+"#""(O.*//"@
'-"' 1O$$O-(("" #O/(&O' 26O!#-"'
' # $ ' - +,
$ Q &%& ' D$&O@[- @'1E I ' ' O'%-"" #!' 6O+O-(
#!!/' +!&"%' &O,!-"'"(#"" +!&"%(' &" 2"/' $' 4"(O/%'
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' ?' - +, ' G' ,!"&,!!26*("(' ,!-' $&O,!"
G' Q ' D$&O@[1E' 6' N ' Q!-'"((O/($"'@
+"%' /-'"(-%O2"' (" 26O-(&O,!' " ;O&&* /' ("
-#O#!O-"'%#".-/%&O(,!"' " 4-(/*/ &O-(('
#"4'"/#'"&"'O22'*-("(("+"/%-&(("/%"(*'
7O-/"'$*-%"' 4*!'/O7"'"/%(O!%*/%' 4O(%*!'"#/" &O
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#O/(&O' 2-%"' " (*/% 4O(' (' ,!-%' 2"' !/"' (*++"@
4"!/"' &O' $&O/2 ' &O("+"/% #"" 4&!(' 4"!-/"/@#" !
*!' "(*/% 4!%"(#!-/"" ' &O/,!"' ,!"/%' "#"/#"
!/' &O/2' ,!"(%'"(#"/% #"" &O' ,!"(4&!(4"!-/"/ &O $-%O-
&"((O/7' 2*/($*'%-' $&O,!"' +"/%*// "" ;O%"(&"
...

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:5 . BB:882 @: 53 +2 3B 5 42 42BB B2 E2.'.2+9' 42
42 53' LL :B3 :5 42 ' .G BB92 ?5' <:B32 ! BB GB2
28 ; 5.=2B:58 E2B8 +2 ; +29 +28 53:58 23' +2
.:93B20 23 25 E 53 33 .G2 42 B E 53*3B 50 G90
4 58 +28 B B28 +2 B J9+_329B' N6 G ' < B3 2 4495
2+:2G2B ?9 '89B ; :532 G' 3:9B :9 + ' . J2 23 ?9 '283
25 <: 532' +2.G2 42 .G B<2532' G.G2 42 < 2BB2'
' 4.G2 42 3B 8G:9BJ' 28 B29M 49 E:R J29B
B 255253 40 G:B4 86 33 .G2B 89B .2332 +G.=2 B2*
GJ 2982 4:53 8<2.3 BGE2 +2 952 :9+2 42 825K
3 ; 2538 23 42 *8:9E25 B80 9 ' 2 ' 0
' 'N' ' 5 4 3 ?92+?92 : 8 ; 8 <+98 B B2 ; 253
3 J9 +32' ' 2 .G < 32 9 <: 539 44952 .+: .=2'
' C 2B ; 2 42 9A 23 :B438' ' 3 J20 +2 3B:5.' 4495
BGB2' 2+2 ; <:9 4:53 +2 B:5.' 42 ?9 3B2 :9 . 5?
< 248 42 4 ; G3B2 89B 952 +G.G2 42 ?9 B 5320 82B*
,E 3 ' :B ; 2B 428 . 5:38 4952829+2< G.2 Q
' '7? ' ' 2+2 428 GB 5.=28 4495 BGB2 ?9 0
< B 8' 4 B2' ! 50 4: 3 G3B2 .:58 4GBG2 .: ; ; 2 + '
3 J2' 28 B '?9' :93 <2B49 4 58 +29B 2952882
+29B +2.G2 : '5:53 53 <B 5. < +0 %%' >7" ' 89B
'/ ' 6 ' LL :9882 42 + ' . 552 '89.B2 23
42 ?92+?928 93B28 <+ 5328 4:53 +28 3 J28 8::3 4B: *
328 23 32B ; 28 'L F' 2B ; 2 42 .= B9BJ 2' 93GB 8 *
3 :5 25 +2.=2 .2+2 ?9'.:58 832 '3B E2B8 2B+ 'G 82
42839 ; 29B8 42 < B3 25 < B3 E2.' 428 + 5J923328 42
<"32 42 .=+:B9B2 42 M 5.'U76 2B ; 2 42 :B3 . K
3 :5' 23 3 :9EB J20 4 3 988' G:552332 ?9:5 G+GE2
E 8*'+ME 8 428 5Q<28 U8 + 538 :33 B253B 538' 49 .G2*
; 5' .:5E2B3 23?9' 283 .: ; <:8G 42 429A .43G8'
' 1' G.2 42G: 8 _' + ?92+2 8 33 .G2 .= .952 428
429A .G 28 4495 <: 53*+2E 8' LL 58 + ' ; .= 52
4 32 ; 5GJ2 G BB28 :9'+2E 2B8 e M:53 9A ?9'8:53
583228 4 58 +2 3B29 +0 23 9A?92+8 +28 .G2E 9A 8:53
4332+G8' ' +G.G2 42 JB92 BGB2 42 + ' JB92'
3 6 2B ; 8 42 ; B 52 + ' <: 532 49 ; +3 89<G*
B 29B 49 5 E B2 <: 532 ?9 '8G+ 5.2 9 . 2+' LL G*
0 4 2 42<2B:9 +: ;' 4:55G 93B2 : 8 4 58 +28 G+3 *
; 2538 + 3 580J +2B28 J + :328 <:+ .B28 23.' ' + '
< G.2 <B 5. < +2 42 G<2B:5 4:53 + '8 2 =:B8 42
'<B:92 <:9 ; 3 9832 ; 253 G3B2 .: ; < BG2 G .2+2
49 3B 3 <BG8332 ?9 332B B.0 #& 'LL +G.=2*25*.9+0
<23 32 .: ; 2 JBGG2 9 8: ; ; 23 49 ; _3 42 <2BB:?923
42 :9J92 58' 4 32 < B28 ?92+2 G3 3 9*428898
42+ '<:9<2 'LL 6 +G.=2 42 <: 88: B ; :B.2 9 *
42 G: 8 .:9BGG 25 B.0 ?9 ' 82B3 ' <B2882B +2 <: + 8*
0 *8: B .253B2 + ' J+ .2' LL ' 2B ; 2 42 29 42 3B .3B .'
5J923328 <: 53 28 42 .:9+29B8 +32 ; 5328 ?9'
64 E 8253U*4 ' 2G3G 42' G ?92 :929B0 + ' 3 G+2 49
3B .3B .' LL 5 4 3 ?92+?92 : 8 ; a <+98 B B2 ; 253
+ ; 2' LL ' 2B ; 2 42 J2: ; G3B 2' +G.=2 4495
B.' 42 .2B.+2* ' <2B<254 G9+ B2 ; G5G2 49 ; +29
' 42U ' Q'B42 ' B.' ' .:9BG2 42 .2332 E:432 '
429A ; G3B28 42 +G2G2' LL # 9329B 49 82J ; 253 42*
3 . G44528<=GB2 < B 95 <+ 5 ?9 ' + .:9<2 LL' %0 K
?923 ?94 +28 B<25329B8 .G253 25 32BB20 3: 9328+28
: 8?9 +8 2 ; <:B3253 +29B .= 58' LL N' .2+2 ?92
+2 3 < 88 2B 42 = 932 + ?2 253B2+ .2 4 58 +28 +8
42 + ' 2G 352 <: 9B +28 325 B 3: < :9B8 G GJ +2 4 8K
3 5.2' C6 Q' .9 ' 428 <23 38 GB 58 42 G: 8 <+ 2G8
0253B2 +28 <+ 8 49 < < 2B ?9 ' 3 +2 :54 4495 GE25*
' 3 +' F6 2B5 2 4 83B25: ; 2' U23 32 .:5832+ 3 :5
4 4=G ; 8<=GB2 G:BG +' L 76 +G.=2 42 < 2BB2 GG*
+2 ; 5 32' LL 6 2 ; :++98?92 5: ; ; G 988' . +; B'
' +2.G2 42 ; 2B +2 4 9<= 5 6*
-'# A ; ' 8' B E:98 ' E2M ; 8 H25 ; :5
2:29B 23 +2 2B 23 + ' +28.=2 "" ' ' ') !
'<' " ' ' ; 2 +:B2 23 + '<+98 852+2 2 .28
+: .=28 23 + '<+98 G2+2 ' ' 7' LLAE' 8' 28
BGB28 ?9 " 283: 253 = +38 ?92 +2 3B:5.' :9 + '
282G2 49 ; G 54B2 E: 3 G 25 8: A 532 < 248 42
+:5J" 2B.2 :B283 < ' C' LLAE 6 8' +98 29B8 52
8J 9B:53 42 ?92 G: 8 B8 +28.=2 0
0 ' ' 2 <23 B4 2B <<+ ?9 ' 8:5 <23 B4 ; 8
52 ; 29B3B 2B2 2 ; <:B3' 9* :88G E2.' ' +28.=2U
? "^#' ' ' B
-' (! ' e +:5 * ' <B:E25^ * ' . 3 +
7 '28< ' [32. :P <:B39J' * ' ' 3 +'
' <G ; :53 8 * ' 49 ; 54 7'
' +2.=2 ; :R25 = 93* +2 ; ' ' +2 ; '
; :4' - " ' D
' # 'Q+G*.=U' [0' 5 . 2552 ; 253 ; :3G
42 .:.=:5 E2.' +2' + B4 23 +2 ; JB2' LL 9 :9B4=9 0
G 542 +2EG2 42<9 8 2< 9+2 9 ' " + ' .9 882 49
<:B2
-'# A ; 68' 25 E: 3 J B5 '8:5' :832+)
E: 3 95 23 2 95 23 93B2 = B 8 +G2 G .:58
J ; G:58 23 + .=28 2 .2 283: 3 + E + 58 B .=28
' '*" F ' LLAE< 8' 28' + B8 ; JB28 5 25 8:53
328 ?92 429A < B3 28 2J +28 <<2+G28 +28.=28
:54 53 +2 + B4 < B+2 E253B2 4 ' " ' ' FDF' 5
+:B ; 54 2 23 882 B23 '2 :5'+29B + 882 9A
<:B28 23 ; G28 23 3283280 2 283 88 E: B + ' ; : 3 G

#'" &0 %"(%"" ' 2602!/" $&"(26" ' 20" -&(&"($"/#"/% &"
&*/7#!'."/%'" '/1"/'$0-(0/% , !"#"!:'4-"2"(' -/ 'BY)
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0/7&' * ' 0&&"+' - *)' - *)' +*'2"0!' /' #0@
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#; ."%*44"' ' "/' 40'&0/% #" &0 $&"26" #" &0 20//" '
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' B Q!-'2;#"(, !-' (" &0-((" %*!26"' ' &;2;-40* &"(
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$- ' D$&;@26-'E' 3' ' N ' *//" ! /" -/K
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#*-% 40(; %' " (!'4'-(, !" &" 2!-.'" 90!/' *!' &0-%*/'
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$*'2"' ' A ' . + '4'(('#0/(6 ' N *K
/"' */" #-'"2%-*/' 2*!'; ' &(U&"(20/0'#(0!.0
7"(J $&;"6-(("/%&"!' .*&' "%(0/2"/%*;&-, !"+"/%
(!"&0 (!'$02"#" "0!" "$$&"!"/% "% (---*/@
/"/%' ' C ' %' ; .--' 4' 'AM' #0/(
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$0-'" 0!:' +"+ ; '"(!/" -/$&":-*/' !/' 0/7&"' ' "(
+!(2&"(, !-' $&;"6-((" &" 4-"# (!"&0 90 + ; " ' &0
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> ' ' ' / .-"/% $&;26-" &" 7"/*!' 4*!" (10%%-'"
&"('"70'#(#!' 4'-/2"' ' 9 "
' -7' &;26-" &" 7"/*!' (" (*!+"%%' *!% $&;"6-(@
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"% +"%#-(J' 1 ' ' :>,/'%' 6'4' A'
' &;26-" &"(7"/*!' #".0/% &"(-#*&"(0#*'"" &"(
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00&' ' Bi' -7' *!26"' ' 0%%"/#'-9 $0-'" 2;#"'
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' + ' Y' ' 0!'0 4"!' #" 4"-/; ' $&;26-" (*/
#;#0-/'-/' # ' " ' -.' ' @%@"&&" "-/' $&;26-' #" (*/
; !+"!"0&%-; '"3 -/' A: G '/' Y' 10'7"/% (!%#*/"
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/-% &!-@+;+" &" +"8"/' &" 4&!("$$-202")
C./' ' ' , 1 'A4 ' %' --'4' RR' "%%'" $&;'*2-%;'
, !"%!'2'*80-($&;26-' ' "%"($0-;&"(&-"/("(%4' ;%"
'(10$$'0/26-' ' ' ' ' ' S" .*!('0-/(4*!"
.*!(@+ ; +"5 "% 9" .-"/(' 7"/*!:' *(4'-"' ' +0
4'-/2"(("% .*!($&;26-" 4*!" .*!('-/' A
' ' S" $&;"6-(+*/'*7!"-&'9!0&&0-%-*!"' 0&&0('
' ' ' 0-(("@.*!($&;26-" ' +"(.*"!:'
' A ' 2*/" ' 0/(&0 (0/'"' 080/%
$&;26-' &0 2*&" "/"#" -"!' 40" ! /' (-/';'"% -$ ' "@
4"/%-"' -&*;%-/%(0&-;"%; '"% ' "%*!+0 'S;'!(0&" + '
- ' ' ' ' :>,/'%' /'4'MR'#0/(
%'" (07"((" "% .-" '0!%*'-%;' /%#! &<-'"4' "$$"%
$&;26-' &0 .*&*/%; '9 '?' ' ' N I' ' - ' ' . *-"
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2"%%" ;0'7" $&;"6-% "/' 60!%' 2*++" 2"&!-' #" 0
&*!"%%"" 20'02%"'" #*/% &0 4&!40'% #" ' ;0'7"(4*'K
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' Md &-"' ' 2;#"(&0 260'7"' "%%"
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9*!'("/'#"((*!(%'*-("(*!' , !0%'"%"02"(#" (!44*'%(
4'!-%"/ ' ; %' ' ; -9 4*!" "+4;"6" &"(4&!("% (&0
2!-((*/' $ ' ' %' /-' ' R'26' A'N
7"/*!' $&;"6-% *'/ (107"/*!-&&"5 "%$-7' */' ("(*!+"%'
!%7"/!' $&;"6-'0#" .0/% &!-' US; !(@ ;' -(%J'
' ' ' %$0-((*/'0(4"2%, !" %*!%7"/*!' $&;@
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2;#"' ' *!%0 $&;26-' (*!(&" ! " + " "/02" ' / ' &' '
!% $&;"6-% (" ! &0 %"%%"' %"%!"' 2" (! " #"/#"'
' + ' ' *!% $&;"6-% (*!(/! (-' 7'0/#
204-%0-/"' ' - ' U 1*#"J ?; /" "6-&&"
(0/7&0/%0!' ;*'#' #!' -+*&(' ! $0-% $&;26-" 1 ("0!%
(' &" 9*!7#" '*!-(' & ' " ' 9*!7"#"
&0'0-(*/' (0/(4"-/"! '"%&" U&0 '-+"J$&;-%'-/' P; ' - '
!% !/-."'($&;"6-% '.("7"/*!:' ' '? '&8
R' -;26-((*/(*!(! ' #-"!' , !-' "!%/*!'(;4*!"@
."' ' ' :# ' " ' - ' ' NM &;26-" (*!(&" 9*!7 (18
(*!+"%%"' '' $0-+"' 9" -10.*!"0-' 2"% '7!"-& 7; ""@

B29A $9' 5 '@ ; 8 +G.=' 8:98 +2 @:9J ; :9B29A0
' C"#'/ ' ' A' * '"& 26"" #" (0 (; .;' -%; ' *!'
#" (0$"' + "%; ' 1"(% ! / 6* + + " #*! :' "% , ! -' $&; "6-%
0-(; +"/%' 1 -& (" .*-% "/ 4'-(*/ 2 -& ("'02*/%'0-/% #"
$&;26-' ' 0 4 ' , ' #0/(' '
$0!% $&;26-" 0!' %"+4((0/(*;(%-/0%-*/' A
' ' 2 2:5.+2 8' 2B ; 2 +G2=3 < B E :+25.2
' ' ! 8 42 B2 +G.= B 95 .:9B J2 5K
+2A G+2 ' 0 9 ' ' Bi ; 592B 42E:5 '
; : 54B2' 2<9 8 ?9 B 532 58 ?92+2 H952 + 8:5
49B2 2' <9 8 + ' .32B <:9B 2A2 ; <+2 44952 ; 3G
?92 5' +28 55G28 5' +28 GE252 ; 2538 5:53 3
E2B 2B 5' +G.= B ' E' LL) i' 2 <+98
.: ; G 33B2 E2.' + ' ; G ; 2 E J929B .: ; ; 25.2B'
.G42B' +2 4B: 32 .: ; ; 25. 3"' +G.=' LL 6 2
+G.= B 3' ' 3B2 <+:RG' :93 J25:9 82 +G2= 3
42E 53 +9 ' H>G898* =B 83 4 58 +2 . 2+ 89B + '32BB2 23
4 58 +28 2532B8 ' # '&' * 0 1 ,
' J' : ; 2 ?' .G3 3 " + ' B2J 2 " 82 +G.= B <:9B B
.:5E25 B 9 89 23 ' 0 / 'R' LL 6 .. : ; ; ; : *0,
428 "0 82 <BG32B "' 93B28 : 80 ; : 58 89G+ ; 20
; 8 5:5 ; : 58 283 ; G+2 G: ; ; 2 8:..9<2 428
B38 ?9' <29E253 <:9BE: B " 828 G28: 58 :9 9J*
; 2532B828 .: ; ; :4 3G8 8 'B 8:5 82 +G2= 3" 3: 93
' " BE A' LL 0 3B2 3:9.=G ' < 8G
$9' 2 +3 2B '?92 <:9B ; :' +2 . 2 443 82 +2.= B'
' ' > " ' . ' 1
- ' ' O I 8' 9 ; ' 2E2 H42 + ' 2 52 283 # :+2
23 BM +:82 ' <+2 532 E2 23 G954:82' 9 ; ' 2+2 283
89E253 +2.= 8 53M $92 + ' 32BB2 29 82 3 <+98 E +*
+ 53M ' 50 Y R' ' <B2+ 3 8953 82B' 29 '
B2 8 +28 42 3 .=2B EP ' +8953 .= 2 ' 428 B2 8 +' B2 8
+9B 42 3 +2.= B 298 283 .= G8 H. G ' ' 428 <B2 In
9 ' ' A ' 0-%&-#!/"(0-/< 6!+0<' %!<+-(
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$&"26-"5 ' 4!" 0+0" #" " ! ' .*-& &0 +*'% (! (%"/-' '
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-"! ' , !-' + * "% (*!$' '-; ; -*' (!/'RA) ' NN: . I ' !-&K
&0! + " #" " " + -%*/' $&" " ; -%' "%& ! -' 7&-((0 ! / ' 4"%-%&"
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&*7-" #" * ' 0."2 7'&0 $0!:
3' #+ ' Q+G*.= *8 *= /0 6' $9' <253
G3B2 .:9BGG <+:RG
-' ' ' A ; ' 8 2B8 +:B ; 29B8 59+28 <B 2B28
2 E +253 3 53 .: ; ; 2 G 54 .28 53 8953 42.2* b
E G+28 23 5 .28 3 42 +2.= 88 G+2 5 39B2
MR Y' 'O I '(' ! 2 ; GB2 58258 G+2 ; 253 H8 5 4: *
+29B +2.= 8 G+2 6' ' ' " 9 ' 'F0 / ' ^
'# $ ' * '
' Q+G*.= *82* ; 5/0 ' ' LL D .*
3 :5 42 +G.= B+28 ; 2 ; GB28' 'B:39 2 283 95 :8 ?9 0
283 ; 8 3:93 2A<BG8 4 58 + '@: 539B2 <:9B + 'B2 ; ; B
23 <:9B+ '4G 254B2 ?9 54 +28 :8 82 B2<+ 253<:9B\'
+G.= 882 ; 25349 J25:9 # ' >7 ' 0 "@L 6 3 3
4495 .:B<8 ?9' +22G 3 8:98 + ' .= ; *J2' 2 +G2G 882*
; 253 44952 <:93B2
- ' 'A E 8' 53+3G 49 +2. 882 ; 25 '#" +34'
+ J ; 2 3@ 9 <:9B 22 ?92 95 ; 2 ; GB2 983 ; 2 'E898
93B2 ' ' "#9 ' .'W
- ' ?' -
' Q+G*.= *829B/0 :4@' ; ' 2B ; 2 4 *
5 3: ; 2' $9' 4232B ; 52 + ' +2A :5 428 < B3 28 :5

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<:9B0 + 88 53)' '+2 8258 .33B0 4:552B ' , '
' + ' 8 J5 . 3 :5' 5293B2 4& E: B 52 G:552
:429B
3' ' Q+2 UB_P +2 ' 54 82 + 2 < 8 4 58 + '
.:5E2B8 3 :5P 9<+9B 2+0 8 82 + 2 ' 428 +29*B 2*M
2<: 5328' +29B238B ; 2 E2.'3B 38189..480< A023. /0
6' ; ' ' Zb' :B38 4&4<42 ' + ; 2 . B42 23 +2A G+2"
32B ; 542 < B 95 G:93:5 J B5' 42 .9 B0 23 ' ' 82B3
3 8&2A2B.2B ' &28.B ; 2' 5 ' ?9&25 .28 .: ; G 38
2 +29B238 :5 8&2A2B.20 :5 0 # ? ' :9B3 +2
?9 50 + ' G J920 28.B ; 2 428 +29B2380 5' # ' '
+29B238 ' B2 428 B ; 28 < R2B:530 .: ; ; 2 + ; 28
4&4<4280 3B: 8 + EB280 9 ' 32' 82<3' NN" ' LL +29B23
42 ; :9.=23 0 29223 4:53 :5' ' N3N +2 G:93:5 <:9B
' G 33B2' LL [' 583B9 ; 253 4& . 2B ?9&:5 2 ; <+: 2
<:9B<2B.2B+28 B:.=28
-' ' 68' 5B9423 B29B +2' +:B23 9 <: 5J0
= ' ' H
-'J (!]6' B 3 + ' :B2 e :0 <2332 +29B 23 +29K
B23 58' 4 XP . 982 ?92 +2 G:93:5 ' 232 .: ; < B2
' :5 G:93:5& 42 +29B
' 3> ' Q+29*BG/0 3 ' 53' ' :B32 42 8:+2 3 *
B42 42 + ' G:9BB2 ?9 ' 283 9A 25E B:58 49 .:.:5 23
?9 ' 283 4: ; ; 2 952 +29B ?92 +2 E2B ' 8:+2 ' <B:*
49 32 E 53?9242 :B ; 2B 8:5 :9EB J2P :5+ 5: ; ; 2
988' .G <2' LL 42 G:9BB2 42 8:+2 ?9&:5 ; +2
4 838 <+98 29B8 23: 28 E2.' 42 + ' 8:+2 :9 42 + ' + 52
2 3:93 .9+30 23 42 G:5520 <9B8 23 52 8:+20 8 58
?92 :5 <9 882 2 ; <+:R2B 9.95 +29B23 5' 93B2
28<2.2 <B:E25 53 42 + ' G:9BB2 42 8:+20 # , '
* ' "' 4&:B0 N @9 + ' NWC0 B3' "N0 + 9G 5
3 42.2 ; 4 ; 2 +' LLc3: 2 32 E2.' + ' 8:+2 428
.:.:58 42 B2G930 LL ' 9 .:53B B20 4 58 +2 .: ; K
; 2B.20 +29 23 42 .:3:50 +29B23 42 + +20 +29B23 42
+0 82 4 823 3 49 .:3:50 ' + ' + 520 49 42 .=: A'
+29B238 40 8< J52 :9 93B2 + 52 42 < B2 +2 ?9 K
+ 3R0 32 532 23 <2 J5G2U 9 ' 7' ' '"
- # 0 A ; 6 8' ' 5& E: 3 < 8 B:G2 42 8:+20 58
' E: " B:G2 42 +:B2320 32 < B 528 ; :B23280
F
-' $- ?' - , ' 5 3 + 250 ' E293 4 B2 < K
< 2B GB:9 + B4
F' D ' Q+29*BG/0 ' 2B ; 8 42 4
: ; ' 4&95 55 25 < 8V@9 ' 82 .: ; <:8 3 4&95 425@*
; .:9< ' 23 4)' 4G9A < 8 ; B.G 8 89B + ' <: 538 49
<2Vc (: 8B39 .2 <23 3 3B 3@ .2 +29B230 .28 .:9<28^
, 0 & * ,7 ' 30
-' # ' S 68' <B :+280 3:9B8 23 428 :9B80 +29*
2332 ' :28' 23 ; 259280 J ' B:3328 0G:548 238 9380
3 S0
* ? $%' 3 +' ' 4 ; 593 ' 42 ' +29B'
0 ' Q+29*B2*3N0 342/0 6' :R'
" * 3' A 08 & 3 3:9328 .28 =:828 283: 253 +29*
' B23 :42' ; GB20 9' M ' LLAE68' 83 G 25 B 8:5
?92 + ' @9832 23 E2B 3 G+2 5 BB 3 :5 42 828 4 J528
; 29B ' X 3 +29B2322 42 ; 2 ; : B28 <B: 3 G+28 23 42
4 J522 . 20 ' ' 0 0 8
') 9 ' - ,
@ ' Q+29*B2*3 /0 ' ' 2B ; 8 42 ; 9*
8 ?92 4&4 J+ 82' :B32 42 .:53B2*<: 53 J9B20 +2?92
&283 <: 53 8R+ G ?92 :9 5:32 89B 5:320 ' >'
! ' 4< , + , ' 5 4 3 "988' +29B3 8 23+29B2332'
6' ' 2 4 3 42 E22B3 58 ..:B48 5E253 8 8 9 B*+2*
D' .= ; <0 "92 +28*; 98 . 258 :53 < B3 .9+ GB2 ; 253
89B + ' G 882
' $ ' - ,
b ' Q+29*BG* /0 ' ' NN 6 23 32 +29B*0
$92 ; UE2/ '*390 .=2B2 +29B23320 ; G+2 23 .= B*
; 53 8:9E25 B^ ' - ' , / ') ' , '
+29B'@' B 2A3258 :50 .=:82 8 58 ; <:B3 5.2' 5K
.:B23:58 .28 ; 9A52 82B 253?92 +29B23328 58 .2
; 99 3=:5529B ' # ' # ' E /L 2B ; 2 4& B*
b .=4:+:J 23 2.2 4&:B ; B?922 4&952 +29B' LL J J'
B:<:8 J + 53' <29E25334 98 E25 538 44G 32B +29B8
+29B23328 0 9 6' ' A ' 0 " ' 4 + 82 283 @:+ 2 23
849 B2 + ' +29B23320 ' W :9<0 ; 3 <<B
' ' C' 38& 33 .=25325 3:9B4 8 ' 2532B 428 +29B23328
'3:9328 .2+28 ?9& +8 B25.:53B2530 ' +2# * 'W' '
:98 <258 2M G 25 3B:9E2B ?92+?92 @2952 .:?92332
B 542 42 & 53B J92 23 3259B2 ' + ' +29B23320 " ' A '
' 50 W '* 28 J258 ?9 ' 8G ; 2B:53 & BJ253 23
+ ' +29B23320 ' - I * ' 5 G2 9A +:9 8 82
2:53 ; 3 +28 +29B233280 " ' - ' / ' 5 +2 <B ' 42
3B ' 34+2 B8 &288 ' 42 828 +29B23328 8G49 8 5328
! ' 2 ' R' 28 < 248 89B +28 .=25238 32$*
498 8 58 ?:58 >2 <:9882 + ' +29B2332 23 .:532 ; 28
B 8:580 ' 5' ' , , ' 50 " ' LL :5329B 42 +29*
B23328 =: ; ; 2 E : + ' ' ?9 ' 25 .:532 ' 3:9328 +28 2 ; *
; 28' ! f ?:5 23 3 J + 530 JB 54 .:5329B 42 +29*
B23328>> :988' ?< E' LL 5J 54B +0.: ; <+ ; 25380
.=9828 + 332:828' :882M 4:52 ' 428 <: 328 $9'
8:293 25. 24 58 +2 ' <B 532 ; <80 P 8 3B28*448=* 06

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10 ! %" U ?" / %" J "&&" 4*'%" 0."20 ; ! / #0/2"' &"($! -%(
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B 828 8: 58 3:93 5:98 B 30 3:93 +29B 30 3:93 89.*
2G420 ! H * E0 ' 2 @9832 +29B B'
.: ; ; 2 +2 < + ; 2B0 23 + 82 ; 9+3 <+ 2B ' .: ; ; 2 +2
2G4B2 49 G 50 ' ' 1 ' 0 , ' A. 0 Y ' 2
BGJ52 :9 +29B 88253 + *< G3G0 + ' @983 .2 ' '
' M' B2 +29B B* & JB .9+39B20 - %; ' --- ' M' &9*
5 3G . 3=:+ ?920 ?9 ' 3 +29B B 49B 53 3 93 42
J G.+28 & J+ 82 23 + ' ; :5 B.= 2 4& 5J+232BB2'
< ' &% ' ! B:30 G ?5343 ! BG8& 3* +29B B +28
G + 4280 ' B3' " ' ' B ; ' +28 4:9A <+ 8 B8
4&952 < A B 32 ; 2+20 B8 E:R 3 +29B B 8:5 5E
3 ?92 .= <2+20 " ' = , ' ' & : .. :5 52 <293 G3B2
; 2 +29B20 5' +28 .:5@:5.39B28 <+98 E:B G+280 8'
@2 4G8 B2 49 ; : 58 42 +29B B 23 42 <B:8<.B<B00 '
' 2 ' 25 52 B <<2+2 4 E 53 J2 & 422 4'
& 5.2552 BG.2P . B0 8' +28 B38 +29B B253 25
BG.2 9 ; + 29' 428 J92BB28 G3B 5JGB28 23 . E +280
+8 29B253 25 3 + 2 +2 ; G ; 2 8:B3P 23 <B28?92 3:93
R 93 <:B3G' ' 8' <2B 2.3 :50 9 ' NA* , ' *
5' 283 .2B3 5 ?9&#: ; GB2 +:B 88 3 429A JG5GB 3 :58
<BG8 + ' J92BB2 42 B: 20 " ' ' " + , '
.=' ' 5 <293+2 ; 233B2 H 53* EB2 ; :54I 9 B 5J
428 =: ; ; 28 ; G+28 23<+2 58 4&28<B 3 ?9 ' :53 +29B'
4 58 +28 32 ; <8 GB + 538 42 :9 8 S 0 ; 8 5:5
< 8 9 B 5J 428 =: ; ; 28 89<GB 29B80 " ' >
= ' , ' - ' +* X2 ; ' <B 8 42 B3
4 E 5 ?9' +29B 3 25 B:E25.20 :2320 ' .= 53G + '
89.2G8 42 + ' B 5.20 " = ' H " ' , ' ' LL 6$ '
' B2B 4&952 +29B0 4&95 G:9?923' ' .: ; 32882 P
$9' 3& ' 4:52 +29B 2 8' ; 3 5^- +:B25.2 P ! 4 ; 2
:5 52 ; & ' <: 53 +29B 20 2&283 ; : ' ?9' ' 3 428
G:9?92380 ' A ' * , " ' ' LL J' +29K
B B 8:5 83R+20 R ; 233B2 G2 9.:9< 4&: ; 2 ; 25380 42
+29B8' ' " 0 2 +29B B0 9' ' B254B2 428 +29B8 <:9B
25' B2 95 G:9?923 :9 +28 ; 233B2 ' 8' G:93:5K
5 2B20 ' 8:5 .= <2 9' 8&283 +29B' 25 < 88 53
4 58 +2 < B32BB2
-' ?' ' - , ' 8 J5 53 G3B2 4 58 95 G3 3
42 <B:8<GB 3G0 42 8<+254:9B0 3 ' ; < B 3 , S
' 23 ' 23 3:9@:9B8 ' 9 < B3 . <2
<BG8253' 93 988' 3:9@:9B8 4 B2 ' ?9 54
8& J 3 4&952 <2B8:552 :9 4&952 .:+2.3 :5 42 <2B*
8:5528 ' :58 B4 +:B 88 3 9 82 M G ; 2 8 G.+2"
3=G528 +:B 88 3 8:98 <GB .+G8 ' 2<254 53 .2332
B2J 20 ?9' 283 BG 3B B20 <9 8?92 2&283 952 3253 K
3 E2 <:9B 93 + 82B + ' 4:9G+2 :B ; 2 ?92 .2 E2BG2 '
< B .. 42530 5&25 ' < 8 G G 952 <:9B 3:58 +28 G:58
9329B8' #28 :42 +29B 88 3 3B2532 58 E 530 +9 0
' ' ') ' 23 :B4B2 B2 <2.3G H+28 4: ; 5*
. 58I +29B 88 3 4 58 + ' B 5.20 9 ' E
283 .2B3 5 ?92 +28 B28 52 8 9B 253 G3B2 <+98
+29B 88 53280 N ' = ' E 0) ' ' BG<93 3 :5
3:9@:9B8 +29B 88 532 42 828 G2B 380 ' ! ' * ' & * '
sN + 82 .:5@9J92 E2.' 9A + B2 / ' ?9 54 :5
E293 2A<B ; 2B 952 .3 :5' ' BGB2 ' +29B' 9@:9BK
4&=9' P E2.' 9A + B2 ' ?9 54 : B E293 ; 8B*
?92B 95 G3 3' BGB2 283 +29B' 42<9 8 +:5J32 ; <8'
! 8 ?9 54 8 J5 +2 G3B2 4 58 95 G3 3 42 <B:8<G*
B 3G0 42 8<+25429B0 E293 3:9@:9B8 9A + B2 ::3B00
-' # ' 0 I 8 0 = B+28 +2 E 2+M0 ' + ' G BG2 +95360
' ' < ' AAE' > ' 28328 E:98 E 2+8 23 +9B M 3
G+ 580 1 ' .AAA9 ' LL S 6 8 ' H 8< 528I <: J5 5M 23
8<B28 ?9' 52 <29E253 +:B B' < ' < ' ' 4: .'
+:B 83 ; G8 .92B8 23 ; 28 E :+: B 5 G:52 ; :B0*
' ' EB ' ; 20 ; B H ' ; +=29BI H@2I E2 ' .+ =P
E 8 23 + ' .2 9 B:82 23 ' +:B 88253 .= 8.95@: B0
1 ' S' + ' 4:9M:B 49 32 ; <8 ?9 ' B E2B4: 2 = 53293
: 82+ 23 +:B 88253 E2BJ2B0 G' AA ' L A 6 8' ! '
<2988 G8 E2: B +2 GB 8 53* 2:BJ2 +:B ' 3:93 .:53 9*
; :53 42 5G8 H52 8I 23 42 E2 88 98 23 42 J + 28 & '
4&=9 88 2B80 9 ' 1 ' 53:9B + ' 53*>2= 5 ?9s'
+ ' B:82 283 +29B 20 ' 7 ' H +2 52 GB +2I 293
<+98 ?9&25 <BG8 +29B 8 82 ; G+2 J 832 GB9 2B20 1
0 ' % ; -"/' (026-; (, ! " , ! -' 4"' -! ' +*'"0 "/' 2"(%"
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6*/%"' "% $*&&8" #!' #-% #!' ' B' "(260/K
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-' (!' - ' QE:R' <:9/P <B:E25^0 ' '
' , ' 28<0 ' 3 +' < ' & 5*
. 2552 + 5J92 4 8 +3 988' ' 23 *
D ' 'Q :*4 2/0 ' ' 2 4 3 42 .2B3 528 ; *
8:58 42 <+ 8 5.2 9A?92+28 :5 4@: 53 +2 5: ;' 42
.2= '?9' +28 ' = 3. :583B9 B20 49 +29 4 58 32?92+0
2+28 8:53 8 39 28 :5 R' 33 .=2 4&:B4 5 B2 & 4 2
?9&2+28 8:53 . :583B9 328 4&952 ; 5 2B2 G M BB2 :9
?9&2+28 :93 . :43 ' G2 9: :9< 4& BJ253 ' :+2*
2 9@:5' ' :+2*! B . :9B3
-' #' 5 R E: +4&:B4 5 B2 +2 ; :3 ' ! 8
.2+ ' 42E 253 4:9329A ?9 54 :5 3B:9E2 4 58 428
32A328 49 ; :R25 J2 '
23 , ' 4 ' 23 ' ' A ' +2
8:9<@:5 5 3 ; &:5 ' " ; 2 +3 B 3 :5 49 ; :3
, ' C3= ,
+ 0 'Q :*+* 0 2/0 6' 2B ; 2 42 G:3 5*
?92' B5' 42 29 +28' LL 2B ; 2 42 <'B ; .32' $9'
283B 49 3 :9 <B2< B ' 25 :B ; 2 42 35 +28 ' LL 2BB2
:+ 2 ; 2B. 9B 2+ 20 . 3 32 42 ; 2B: ' LL 2BB2 :*
+ 2 42 3 B3B20 . 3 32 42 <:3 882
+ 3' , '42 , ' 29 +2
%' F-@** , 'Q :*+** *B&/0 6' 2B ; 2 42 G:3 *
5 ?92' $9' <:B32 428 29 +28
-' ! ' 3' , ' 29 +20 23 - ' <:B32B
%' ? 'Q :*+** :B* ; &/0 6' 2B ; 2 4&= 8* V
3: B2 5 39B2+2' $9' '+' :BB 2 4&95:' 29 +2
-' (!' 30 , 0 29 +20 '
H +< ' :+**<'B&/0 6' 2B ; 2 42 G:3 *
5 ?92' $9' <B:49 3 428 29 +28 :9BJ2 :58 :+ < B28
$ ' O%' , ' 29 +2 0 23 " '4'*#!-'"
3+ 'Q :*+*:/0 ' ' "6 R5:5R ; 2 4:'329 +230
.&283*""*4 B2 952 29 +2 4:' < < 2B . :58 4 B22 < B
B <<:B3"8 8 429A < J28 +B2 4 3 25 < B3 53* 42B2*
J 83B280 42 ; 598.B 38' LL :+ :' B2.3:0 :90 8 ; <+2*6
; 2530 B2.3:0 + '<B2 ; 2B2 < J2 49 29 +23 :+ :'
E2B8:0 : 0 8 ; <+2 ; 2530 E2B8:0 + ' 82. :542 < J249
29 :3' ' 2B ; 2 4& ; <B ; 2B 2' 2 .G B:' ?9' 59*
; B:32 .=2?92 < J2' B 2B0 .= 5J2B +28 :+ :8
' & ' " , ' 28 :+ :8' LL 6 5* :+ :0 E:R' .2 ; :3"
8:5 B 5J0
'# $ ' G+ 3 '49 + 3' , ' 29 +2 4& *GB2 230
< B 2A3258 :50 29 +2 42 < < 2B
%' Q ' D$*@&-@*@&&@'1E' 6' "'+" #" ;*@
%O/-, , "' Q!-' O440'%-"/%O!:'$*&- &"(5' , /-' %-"/% #" &Ó
/O%!'" #"(' $"!-&&"(' %-4!&"(' $*&-&O-'"(
'# $ ' -
'Q :*+*:* U0 ' 'LL 6 2B ; 242G:3 5 ?92'
= .952 428 <23+328 29 +28 ?9' 3:B ; 253 952 29 +2
. : ; < 8 2' ' 29 +2 49 3B2 +2 283 . 95<:8 2 42 3B: 8
:+ :+28' ' 6 28 < .28 49 . + . :0 5: ; ; 28 988'
8 < +280 23 .2+28 42 5E:+9.B2
' 3' , ' 4 ; 593 ' 4' , '
29 +2
3' 0 ' Q :*+*:* 0+ 2/0 71&' 2B ; 2 42
G:3 5 ?92' $9' 82 . : ; <:82 42 : :+28 :9 25 <:B3 i'
5 4 3 ' 95 : :+ 0 G :+ : 0 ; 9+3 :+ : 0 23.' 25
< B+ 53 4&95 < 3 : 2 :9 4&952 2 +2 " 9520 429A0
<+98 29B8 :+ :+28
-'# $ ' -
3' 'Q :*+*:/0 ' ; ' < B3 2 49 B288:B3? '
<:9882 +:' 42 ; *3:9B0 4 58 +28 82BB9B28 9A?94+28
:5 4:552 95 3:9B 23 42 ;
3' + 'Q :*+*:*3 *@&@0 ' 'T .3 :5 42 2*
+ :32B
'# $ ' -
' Q :* *:* 5 ' 3' ' !233B2 +28 :+ :8
9A < J28 4&95 :9EB J2 ?9&:5 ; <B ; 0 " 428 B2*
J 83B280 " 5 ; 598.53' 5 B2 J 8GB2 : :3
-' !' 58 +28 B2 J 83B28 23 ; 598.B 380 :+ :32B
2834 2B253 42 < J 5 ; B'2& 83 . : ; <32B +28 29 +2 8
23 5:5 +28 < J28 ; 8 25 32B ; 28 4& ; <B ; 2B 20
:+ :32B 283 8R5:5R ; 2 42 < J 52B
' ?' -
%' " ' 'Q :* 5 ' ' 2B ; 2 42 < .=2' +23 "
+ BJ28 ; 280 ?5' 82B3 "' <B254 2 428 B 28 23 9*
3B28 <: 88:58 <+ 38' 28 :+ 28 9B:53 +29B8 ; +28
42 . 5? <:9.28 25 . BB 0 c ' : 3 +2 ' LL 2*
; *3: 20 8:B32 42 +230 R 53 +28 ; +28 <+98 82B*
B228 ?92 + ' :+ 2' LL ' :+ 2 82B3 988' "<B 54B2 4 '
3:B3928' 2 8: B @& + ' E: B ; 233B2 + ' :+ 20 :&283***
4 B2 +2 +23 ?92 &:5 3254 <:9B <B254B2 4283 B39280
' . , / , ' / 4 ' :9 320 "6< B3 20 2=' "
-'# $ ' 83*.2+2+ 3 5 '8 .^ 2 \ 3 283 ?920
4 58 !/' 32A32 . 3 ' 40" 49 5J2 */' %'*! ' '
E2.' 8258 42 8:9B .+ B2
' ' ' Q3:*&/0 ' : .=2B?92 >&:5 B25. :5K
3B2 25 2A<+: 3 53 + 'G:9 +2' D
%'Y' ' Q :* /0 ' ' - ' G+ 5.=20 . < J2
:58 2B ' <B28?92 2A498 E2 ; 253 "+ ' \GB . 3 :5 428
58 ?9' <B:49 8253 +28 . +2GB28 2 9A*42*E 2 42 :K
J5 .'4 58+ 8 = B:53:8 23 &: 9*42*E 24& 58 J5 .'
_58 3:' :B8' b

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B

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60&&' /O%-$ #" *&*7/"' O. -%%"/" +"/%' !(('- O!@
4' (' #" 2"% "+4"'"!' 40"' (' 2*//O-((O/2" "/'
468(-, !" "% +O6" +O-, !" , !!-& %O-% #"."/!
+O/#O'-/5 21 $O-% &---' , !-' &" 4'"+-" O.O-% $*, #!'
#!' 20/*/' #" ;*'/<" ' &O' 6-/"' ' A*, #' ')R
' Q/' #-% #" -/ '/" $*/#"' #"(' 2O'O2% '(' #!-+4'-K
+"'-"5 $*/#"' #"(' ;O&%" ' -7' & $O!% $*/#"' &O'
2&*26" ' 2!M(%@ @#-' -& $O!%' %"'+-/"' O26"." !/"
O$$O-"' "/' ."-' '2" , !!-&' 8' O' #!"((' "/%-"(' #" #-$$-K
2-&" ' #" 4 '-&N"%O' NN /' !/' O!%"' ("$-(' $*/#"' !/'
2&*26"' ."/#" ' 4!-(' "40"%O7" !O'7"/%@ O' (*2- %
"(' % #-(*!%"5 O; *6' ,' (1"/$"/# 40(' -& $O!#'O' $*/#"
&O' 2&*26"' "(' ; ' -%-' '(' /" (*/% 40(' #!O 2*'# 5 -&
$O!%' "/*4"/' "' 2*/(' #O/(' "' &O' 4'*4%-' %"5 *' $*/#-O
&O' 2&*26"' ' BI -7' */(!+"' "/' 4'*#-7O&-%; (' /'
7*!' +O/# #O#(' (*/' O((-"%%"' #' ' "/' #' ; -"/' #"/('
O-"!' ' & C' ' ' UN "'+" #" 2*++"'2"
/#'" #"(' O2%-/(' #"(' ;-&&"(' ("# $O-" #" ("(
; -&&"(' ' .'/#"' ("'O2%-*/(' (1"/' #' $O-'" + +" O."2
4"'%" #O/(' !/' ("'2-'4'" (("'$ /% ' NN #' "' +" #" +"#"@
-/"' :"'2" !/' O2%-/' ("&!-%-' (!' !/' 7*7"'7"K
+"/%' */#"' !/" ' !-; (%' !2%-*/' N /#" & (6!@
*!' !"(' ("$" !' #"' &!' 4&!(' !/' 20&2!&'
&" #-((*!#"' /' /8' O' 4*-%-%' 9 (, !!4"' ("/' #" "K
+ #" , !-' $*/#"' #"(' 20&2!&(' #O/(' &O' ."(' -(' NNRF -7'
O-"' , !" #"(' 26 ("' O!4O'O%' #-(%-!%-*/(' ("' $"'K
+"/%' !!' (*!%-&' %"(' *!' D+' +!.'O7"' (O/(' !/'
O!%!' %*!%"(' #"(' O/(' (O/(' ' ; 4' +" O!' ' "' ' */K
("+;-' #"(' !"(' (8(%"+"(' ' 8' O44O'"/2"' , !*-' 8'
O.O-% $*/#"' &"(' O2%"(' ; 7&-"/%(' $O-%(' O.O-%(' ' @
/O%' M' > ' " ' :--&' ' *'-' &'!' 6-(%-*/'
40' O'%-(O/' (' 4O' "'/"(' #'(4.O/%' !/' #' ("-/"(
!' #" $/#"' (' (' , !"' 40" (*!' #' ' (!' (*' "*K
4'"(:4 ' -"/2"' *!' 40" *"&O' #"(' ("/%"(' O!' */K
4&!(' -(' ' 6%' J, , "' %' -4' M ' #O/('
Y ' U&" *!((-/O/% $*/#!' O."2' !/' %"'+-/"!'
-;&"O ' 2&" 4O7O/-(+"' #" #"' ' &O' O; &O-%
' $' ' D$*/@#" @<19' ' ' "+" #" 4*-/%
#! &"/#"/%' /*/' $O-%' ' ("'O' 1$*/#"' !/"
2"&&" , !-' (*!%-"/% &O' (*!.'O-/' (*2-"%" ;"O2"(' &O
$-"&"(' &O' 2*/2"4%-*/' #" $*/#"' -(-' 4*-"
? ' *-%#

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"&4'*#!-% 40:&O 2*+;-/0-(*/' #" 1O2-#"$*/7-,!"
0."2-+";O("
%' D$*/@9"E'.'/' '("#-%#O 404-""' /*/'
2*%&M ,!-' ;*-% 1"/2'"
D$*/@9-@;&1E' 6' "'+"#"9!'-H'!@
#"/2"' "' #-%' "/' +O%-H'"#" 4'#%"% #!!(!$'O-%'#"
%*!%"('&"(' 26*("(' ,!-' 4"!."/% (" 2*+4%"' (" 4"("
O (" +"(-!"'' "% ,!%'(""/(*++0/% 40"-!!(07"'
4"!."/%#%'" '"+4&O*#"(' 40" #"(' ,!O/%-%"(' -70&"('
"/' *44*(-%-*/'O!:' 26*("(' /*/'$*/7-;&"(' ,!-'#"+"!@
'O/% "/%-'"('O4'#(' 1!(07"'(" '"(%-%!"/%"/' /O%!"
?' O%' , 1 ' #" , ' '"+4&-" &O
$*/2%-*/' 1!(07"' #" D.*8' @
%' S' D$*/@9-@[*@ 1E' 6' "'+" #""<**@
&*7-"' Q!-' '-%(!"*/' #O/('&"(' 260+4-7/*/(
' f ?' O%' , , ' 260+4-7/*/' "% '
;O;-%"'
$ H 4-' D$*/@9-'$*'@+1E' *#9' "'+" #-@
#O2%-,!"'Q!-m&O'$*'+" #!!/' 260+4-7/*/' NN "'+"
#"7#*7/*(-"'2*!&"" $*/7-$*'+"'2*!&#"#" &O."',!-'
(1"40/260/% (!"' !/' %"'O-/' 6*'-<*/%O&' (18' '#40/#
#!!/" +O/-#'" -'4"!4'-('2-'2!&O-'"
'$- ?' O%' , ' 260+4-7/*/' '"% '
% '_$*/@9-@4*@' !E' ' "'+" #16-(@
%*-'" /O%!'"&&"' -%6*468%" ,m-'"(("+;&"['!/' 260+K
4-7/*/
?'&O%' , , '260+4-7/*/' "%" '4"'%!-('
%' D$*/@9-@/1E' ' ' *+' #*//# ['&O 2"&K
&!&*(" *!'%-((!' #"(' 260+4-7/*/(
' '&O%' , , ' 260+4-7/*/
' D$*/@9-@/--/E' ' ' ' , ' O+-&&"
#" 4*&84"(' *-&' &"(' O/-+O!:' /"$"'+"/% 40(' #" 4*&8K
4-"' "%' -."/% (*&-%O-'"+"/%' O%%O26"(' O!:' 4&O/%"('
+O'-/"(
%' Q ' D$*/@9-@[1E' 6' ' "'+" #" 26&@
'*-"' 2-#" $*/7-,!"'O2-#"" H 1*/' %'*!."#O/('&"('
260+4-7/*/(
'$- ?' O%' , , '260+4-7/*/
%' D$*/@9-@$E' ' ' -"''"$-7!'#"' #"
(!;(%O/2"#!'" "% #" 2*!&"!"9O!/"' #*/%&"(' 'O-"('
-+-%"/% "&&" #!' 260+4-7/*/' N *&84&"'$"((-&"
'$- ?@ 60%' , ' 260+4-7/*/' "%$"'$-/O&"
,!-'"/' 7#*&*7-"' #"(-7/"&"('4-"''"(
%' D$*/@9-@.*@'1E' 6' "'+" #""<**@
&*7-"' Q -+O/7"' #"(' 260+4-H*/(
'$- ?' &O%' , ' 260+4-7/*/' "% 3
+O/7"'
& ' D$*/@7*@-@#1E' 6' "'+" #16-(%*-'"
/O%!'"&&"' Q!-' '"(("+;&"' O-+' 2%H4-7/*/' NN "'+"
#" +##"2-/"' Q!-' O&O $*'+" #!!/' $*/7!(
'# * ' ?*% 68;'-#(' #!' &O%-/' , ' 260+4-K
7/*/' ' "% B# '$*'+"
Q ' D$*/@7#@<-@ E' ' -N -%O%' #" 2"
,!-' "(%'$*/7!"!['NN I' "'+" #" +##"2-/"' "%-%"
%!+"!"$*/7!"!(" 'US "7"%O%-*/' 260+!"'+*-&O(("
(4*/7-"!("' "/' $*'+" #" 260+4-7/*/
' ':.-i' '&O'&"/7!"O' "(## 'O'" "% (4*/@
7-"!("' O$-/' ,!"4&!(' e 2-&"+"/%"&&"4"!(%'O#+"%%"
"%'"2".*-'40'(O$!/7*(-%#&"(O."!'(' =' J
'$- ?' - , F
O' ' D$*/@76"$%' 76"$-@<1E' *#8'
% d "'+" #" +##"2-/"' Q!-' "(% #" &O /O%!'" #!'
$*/7!(' &2;'" $*/7!"!:'NN /' O44"&&"' ,!"&,!"$*-('
&"('$*/7 (-%"(' 60-'('$*/7!"!("NN I "'+"#" ,*@
%O/-,!"'Q!-'"(("+;&"'O!'260+4-7/*/' 2!"(%@[@#-'"
#*/% &O (%'!2%!'" "(% 260+!"'+*-&O(("% (4*/K
7-"!("
' 'O I(' !2!/('O#9*!(%"/%$-/",!O%'-"+"
"(4"2"#" 260-"$*/7!"!(" "% "/%'"&O2#"' ,!!-&('O%@
%'-;!"/!% '&O("!&"&O/7!"' $-'S'&*'
X'$- ?' &O%' , ' #" , ' 260+4-7/*/'
D.*8' E
'D$*/@7!(1E'(' 'NN I' "'+' #" 26-'!'@
7-"' *%('#!":2'*-((0/2" 260+!"' ,!-'(1 & ."#!!/'
!&2"'"*/' #!!/" 4&O-" "/' $*'+" #" 260+4-7/*/'
/' $*/7!(' #" /O%!'" 20/2['"/("NN */7!(' #"&O
#!'"@+&"'%!+"!('#"&O #!'"@+"'" ,!-'$*/%(O-&@
&-" O!' #"6*'('O4'"('O.*-"4"' , &"('*('*!'O!' #"K
#O/(' "/' ##4'-+O/%&" 2"'"O!'NN "'+"#" . %"-@
/O&$" *'%-*/' #" !!.#" 40((O/% &O 260+;"'
4*(%"-"!"#O/('&O 260+;'" O/%"-"!"'1*"-&'"%
$*'+O/%% 4"%-%('4"&*%*"' 4 &"*%*"'('O!' ;*#"&O 4!4-&&"'
' d "'+"#" ;*%O/-,!" 7#/#'O&"+"/% "+4&*8#
H!"' #"(-7/"' &"(' 260+4-7/*/('#"+"'
'O I(' O'2*+O'O!%'"+"/% #-% $!/7!('
"(% !/"'2%*-((0/2" #" 260-"' ,!-' '"&&"9"%%"' !/"
(O/-" $*'% 4!O/%" 9' &"(' .!&70-"(' 1O44"&&"/%" $-2
O-/% -O2'"' <3' 9'
'$- ?' O%' , ' 260+4-7/*/' "%'#" ['%!@
+" "$*/7!"!("#!7'"* 2$ 8*2 D.*8' $-4* 2<E'
,!" &"(' #%8+*&*7-(%"(' 'O44'*26"/% #" 1O&&"+O/#
26%/O++'260+4-7/*/$' 4'*."/,' ' 260+4-K
7/*/$' "(407/'6!/7*$-%O&'$!/7*
' ' ' ? ' & $-

$' 'D$*/@(*-'E' ' +' " +#+", !"$*/,*-'
O X X ' D$*/@%[@/1E' ' ' O!' .-." ,!-'
(1#40/26" ['&O (!'$O2" #!'(*&' 40" !/' 2*!'(2*/%-/!'
" ;O((-/' &"(' ;*'#('&O (*!'2" #!!/" $*/%O-/"' S1"/'
'"."/("/2*"" [' .*!(' "1"(%@[@#-'" [' 2"%%"" #-.-/"
$*/%O-/" #" O!2&!("$,!"&&" ;"O!%[I #%'O',!"
O.O-%;-"/'O-(*/'#1"/'40"&"'(*!."/%'([.'M ' *++"
-&' /1&'O'4*-/%#"$*/%O-/" #"/%&O 2*!'(" (*-%(-%'O/@
,!-&&"' ['&O,!"&&"*/' /" $[(("4'"/#'" 40" &O'"(-(K
%O/2" &O '04-#-%['#1&+'%*'"/%' '#
)I' ' " ' O *' ' & +" 40'O%' O#+-K
'O;&" $*/%O-/" U&O $*/%O-/" +##-2-/O&" #" *!'K
;*/J' Q!" .*!(' /1"$-%"(9O+O-(' &O ."'%!' #1 -&@
4*"'[/"' (*/' ' ' :.+' *!%"(' &"(' $*/%O-/"('
4'*.-"//"/% #"(' "O!:' 4&!.-O&"(' -/$&&%'#"(' "% 'O(@
("+;&#"(' (!"&O 7&O-("' ' A ' '4' R' #O/('
-,4 ' !" /*(' &O2(' "/' /*(' ;*-('O!' ;*'#' ,!@
/*(' $*/%O-/"(' 9 ' #*4 ' -' &' O $*/%O-/"
#1 7"-"' *[' !+O O&&O-% 2*/(!&%"'' &O #-.-/-%" #"(
6*++"('#" ;-"/' ' .' ' NN /' #-%
#O/(' !/' ("/('O/O&*7!"' $*/%O-/" .-/'&O-%
"%2'' O" ":%"/(-*/' /' 2" 9*!'O!' 9*!' #!' O!@
."!'/"/' 2"9*!"*!' &O ;*/%['40'O-%O'O!' +*/#"'-&
8'O!'O !/" $*/%O-/" *!."'%"[' &O +O-(*/'#" O.-#
"% O!:' 60;-%O/%(' #"S[+(O&"+' 4*!' &O4!'-$-20%-*/
#!' 4[26"!' ' I ' ' !' !
Y' -7' *++" &O #-.-/-%[' %"(@O!7!(%"' O !/'
(*!'2" "% !/" $*/%O-/" #" #-.-/-%[' O-/(-' ,!*"40'@
&"/%&"(' ""('7"'2(' "'# ' '# ' 9 '
" 1 NN */%O-/"(' -/%"'+-%%+-%"(' 2"&&"(' ,!-
2*!&"/% "% (1O" [%"/% 40"' .O&&"(' NN */%O-/" -/@
%"'+-%%"/%"(" (" #-% O!((' #!!/' O440'" &" #-(4*"
+O/-['" ,!" 1#2*!&"+"/% #" 1"O!' (!;-% #" ("
'!4%-*/(' I' "'+"#" 468(-,!"' */%O-/" #" 2*+K
4"((-*/'' O440'"-&*6"#" O-"2*+4'-+#'4"(0/%(!"'
&O (!'$O2" #" 1"O!'&O$O-%9O-&="['!/'O(("<7'O/#"
60!%"!'' NN */%O-/" #" -'*/' O440'"-& -/7['/-"!:'
-/."/%"#" ['*/"-O/:O/#'-"'O4'"(-&!7-&[/-"
O.O/%/*%"(' #'O/%-"' 0 #!!/"' 2*+'4 '%2*"' 4"
2"%O-/" ,!O/%['#" 4"(4'"' #O/('&O "!(!/("@
#"((!#!"/' -..9"(O-(' "% 1*%(' 2*" #!!/#"
"/' !'O/' 40/' ' 2"%O-/" #!'*/' O2(-' '4*"'
"/*'%%"(O-/"' ("#"'"&O 4"'-+'-;!(("! ,!*"1#"
"(*/7'-/"(!*(O$!0/2'!"(" 4"'O;' 40*"4-'"#"
'4O/-/"@/ '40*"'O4'"2&[/"@(! (*,!-4* #" "&&*"'
"2*/7'-'"O!'"' +&O-/"' ,!-&(' "("(*"(!4"!
"4'-/2-4"' #" 1!/" #"(' #-.-/-%[(' "/' $"'+"
"2-/7'O#"' 2"(%"&O 4'*%"2%'-2" #"(' 4&"2"(O-%#"
1"(*'%"' O!:' +*'%(' #O/(' &O 4O'%-" #" 1O4'"(
"!"(' "%' O$-/' ,!-&(' 4!-((O/%' "%"'"
%*!'"' #"(*'+O-(' 4*!'"!:' ,!O/%' #'O!-&('#-*/%
1"&&O(' O/%' ,!-' #O/(' 2"' "(%' "%' "/(*+;&"
#"(' ;*'#(' #!' (*/%O-/"(' "%' #"(' 4O%%
$!/7*/%O-/"' 4' #" 1O 4*/%O-/"

$*/%O-/" "(% 1"O!' #" (*!'2" : +, ' 5K "%&O
(*!'2"' "(%2", !-' (*!'#' 2" , !-9O-&&-%' 2" , !-' $*!'/-%
&O $*/%O-/"' 1"(% &O &O /O/24' "/%"' 2"('#"!:' +*%('
O (*!'2"-/#-,!" 2"('20/O!:' (*%"'O-/(' ,!- O+[@
/"/% ['&O (!'$O2" 1"O!'#"('4'*$*/#"!'(' &O $*/%O-/"
"(% 1"O!' ,!- ['&O (!'$O2" #!' (*!"O-/" /
;O((-/' /O%!'"&&" *!' O%'-$-2-"&' 1"(% 4*!'"&O ,!!/
/*++" $*/%O-/" "(% "#-$-2" ,!-' #O/(' &O ,!O .-&&"
."'(/"' 1"O!'O!
' J (' ' -< U 6'-(%J /*(%"' (-"(' "($*/K
%O-/"' [' /*(' 40" 2!-' /*(' (*+"(' &O."<' '
4' YB' &"(' 20(%"&(' 4'-(%"'/%' "% &"(' ;*/"(' $!!%"-@
/"(' "(%!4""/%'< '4' YM ' *46"%' 2"&'&-!' ['-%O/%
"(%#"2&-%H&"' #"' ;"' O';'" "% #"' ;"&"(' $!/%"-/"('
1' A' J (' &&" O ;-"/' $O-% 2*+4-"/7 $;*!'@
;-"'J #"(' O 2-""'"$*/%O-/" U"&&" O ;-"/' (O-& (O '"4!K
%O%-*/J' ' ' ' !/' .O&&"% .-"/% Q!-' !/
40-/' #!*7" "/' &O +O-/'%-"/% % !/' 4-26"" U.O("J "/'
(1O!%' +O-/' ?*!&% 4"%-%' #" $*/%O-/" U#!"O!J 4&O-/'
O ' +(' #" % "'+"' $&O ' #O/('
' ' !J (' /, !"(' 2"'$ "(260!$['(' /" #"(-O
$*/%"/"' O/% $*"% 2*+' -& #"(-"/%' O((O+;&"' U2*+@
;O%%"'J "/' &O 4&"/"' 2 ' ' < ' .' YAY' !/'
$O!2*/' !/' $*/%O-/" U(*"%" #"' +O&O#-"J O!' 4-M'
A ' +(' $F Y #O/(' /" HO/%' $*/K
%O-/"' "/' 7!-(" #!!/' 2;O(%"&' [' 4-&&-"(' #" +O,*/@
!/" ,!O('(" ("+[" #!" (+O!:' 4"(O/% /!$ &O +O-/' O;'
'$ ' ' ?' ,7'4' Y ' NNO I(' U O-(J 1"(%&O
2-%" (!'%"!%"(' 2*!'*/""' */%"-/" "% 4!-(#" "/(
"%#" 2&"7-"' '#, ' '1 ,' 'O '
' !J (' "($*/%"-/" "% &-"!: $'O-(" #O' %"!""'
#*/% (*!'#"/"$*/%O-/"(' /1*/% 40(' #"(' O+O(
#1"O!' 2026["(' /8' #" '"2"4%O2&"(' "% 2*/20.-%"< (-
2040;&"(' ,!"' ' ' O'A ' O$*/%O-/" #"
#*!2"!'"6!+O/-%['&O,!['&&" /" #*-%9O+O-(%O'-
"/'&16*++" - ' *%*/' ' O-(0/%2*!44" "'*+@
4"' (%!8O!:' 40"' &"(,!"&< O!2!/(40"%-2!-"!(
#"(*;;*-" (%' 1"O!' #" $*/%"-/"(' 4!-#-,!"(' O-/+
,!"&&" 40((" -(*' 1O!' &*+ #' &"!'(+O-(*/'(
1 YB' ?"%O/%&O 20/"&&"$*/%O-/" *!' '*;-/"%O!
+-&-" !' #!' %*/' 4"' "+-'"'"+"/%
BY ' 4"%-%"$*/%O-/" ;*% *' ['(*/'O-("
1"O!' #"' &O $*/%O-/" /" +*/%" 4*-/%4&!('60!%,!"
(O (*!'2"!' *[!- ' < ' %'-- ' 4'
'$- ?' 4'*."/3' 4 "(407/'
"%-%O&' '#!' ;O(@&O%-/ ;$O/*' #!' &O%-/'
' #['-.[' #" (*!'2" D.*8' % @
\' ' D$*/@%[@/"@C*E' ' *+'
#!!/" "(4[*"#" 260(("O(' %'[@("(%-+[' ,!-' ."/% ['
6*+"' 8 "%O!%" (&-"!: .*-/"#" */%O-/";&"O!'
' D$*/@%"@/M@<1E'*!' $- '
D$*/@%O@/"@<1E' ' ' ;'-(("O!'#!' ."O/%"#" &O $OK
+-/" #"('*&-/"('(' - ' " 4 4 ' O@
;-&&O'#-"'"
'$- ?' [#-[' 40" O;-&&O'#-"'" O!' ;*%O/-(%"
!
'D$*/@%"@/-[E' ' ' *8' %
'D$*/@%O@/[@ 1E' ' NN F /#'*-%*6
&O (!%!'"2*'*/O&"% "% (!%4"(07-%%O%O"@O;*!%-(/%'
"% ,!-' [%O/%$*'+"+!' 26"<' &"('/$,(%/" 2*+K
+"/2"' ['(" #!'2-/"' ,!" ."(' (&"'"!!' ("/#*/"' *!' &"!'
%*-(-[+"(%*/O/"' NN d O!%[" .[(-20%-*/'(' (%*/!#"(/%"
4&"-'[2*!'"'"' VV
' 'O.-I(' O'&" ."%"' *!'(*++"%"% "(%"@
%"/#!' &O $*/%"/;"' 2*+"' ,!-' 2*/"' "7H+" #!' #" #!
+-&-"!' #" &O (!%*/%O-/"' ' O 4&O-"'
"(O "/%"' ['&O +O-' #" $*/%O-/" &"&O("(O!%" '
#"($!-&&"' #" 2*/%O-/" O!' 4O!%'
' -'$- ?' -+-/%$#" '4'*4'"+"/%"
%-%"$*/%O-/"' 4'(%"[(@!-[%#O/(1O/2-" #" ;'
7!"$!'.[(-20%-*/' 2*+" +["" $O-%"' ,!'O/%"' "!
O!%' (*++"+"/%"(' #" +"+"/%"(' (!/%' ;-/-(%!
$*/%O-/"' ,!'$!-!"$
Q :5*3 5*&/O (' ' :294 42 B9G 5?92
+28 2 ; ; 28 <:B3 253 89B +29B .: 9B2' IL 2332
.: 9B2 .= 5J2 ' 42 :B ; 2' :53 5J2 42E 53 952
8:B32 4 \4 .2 ['<+98 29B8 \3 J28 42 4&9.= #0 89B
+28?92+8 :5 <+ @ 3 4 \B2538 ;:B.\ 9A 42 3: +2 8\6
<B\8 < B 428 B G 58 ; \8 42 G:9 +28 42 .=2E29A
?9' +28 B2.:9EB 253 3:93 [' 30 % ' #' X
' ' Q 95' *, '%'5O <6 "N O 5:32 '>' = 98#
82B 8' :53 5J2 25 .:?92332 \E253\20 '
' ' ' +F ' -' M ' ; G 25 5 *3*: 5 < 8 .!
42 G' 28 9A R29A 4:9A' :93 [' .:9<82 .= 5J23
25 G:9BJ2: 8288 9E J28 ' 30 4\2:9EB 53 &:BJ92+
42 +29B8 B9428 28<B 380 :98 +29B :53 5J2 +3 2B2 8#
82BE B +29 ; B+80 ' # 'A0
$- ?' "(*-"'2*+ +"' */' ("'"%-'O-% U ['!/"
40'%-" #" 260(("J'-& (1 ['&" .O!/'4"%-%."/% ,!-' *;-@
2 ' ! +2 42 \53 5J2 42 ?9 332B 8 ' .<2+ 52 2+2
3 33 .=2B8 ' : 9B2 < B ; B9G 5 4:53+28 5:2948
3:; G 253 89B +2 B:530 23 .23 @98320 ; 253 42 3\32
' - '

JB 54 5: ; GB:' 42 ; .G 548 :B 58 42 :B 58 4 22 ; B.=2' 2 4B: 3 42 B 5P:552B +28 ; B.= 548 :B 58 . B +:B8 5&R E < : 53 4& 93B28 ; B .= 548 'B* , 'V7C' IL "] B .: 5 98 :5 42 8258 .: 5952 8 4 58 ; B.= 54 :B 50 :B 5 E:9 + 3 4 B2 ?9' 283 42 + ' : B2' ='3B2 :B 50 <23 3 3=243B2 4B2882 '+ ' : B2' :98 3 ; 28 '' 5:98 429A +2 ?9 B3 4&95 E 942E +20 9A 3=2 3B28 :B 58 +2?92 :3 <B 2534 3 B2 3 8'' < B3: 93 '' &95 5 ; 320 !((' 0 ' ,/ ' ! ," ' ' !, 'IL# ' " ' 28 :B 58 +28 G 32+29B8 42 + ' : B2' 2 < B: 4 832 : 8 '23+28 :B 58 3& 33254253 'A # 0C' ' : ;' 4:554 8<". +2 ; 253 9A .329B8 428 3=2 3B28 42 + ' : B20 < B :<<:8 3 :5 9A .329B8 42 + ' : ; 24 2 B 5P 82 ?9&:5 <<2+ 3 +28 2 ; 58 . 982 428 89@238 42 3B J24 28 2 ; <B95348 25 JB 542 < B3 2 "' = 83: B2 B: ; 52' IL N' 2B ; 2 42 ; B 52' 42 :B 53 3 B 42 ; 2B ; 22 B 42 :9E2B32 9A E2538 49 + BJ '' & @2 ' 429A B 428 :B 528 : 3 +28 E 882 9' 42'3:58 +28 B 5J8 8253 25 8 3B2340 +:B8 ?92 +28 E2538 49 5:B4 23 .29A 4&:9283 52 8:9 +253 < 8 " # $' ' ' '* :# ' ' 2B ; 2 42 ; B 52' :B 50 8@ ; :5R ; 2 42 9A B 5J0 :9 E 42 4 58 & BB ; J2 -' (' 68' : ; ; 253 E:98 '2834 253B2 + ' J253 :B 52^ # 'AAA' LLA 08' S E:8 23 "3:M +28 :K B 58 ! 2 <+ 5@2 '< ' G 25 8953 3 25' " 4B: 32 J9 82 8 93B28 G 258 ?9' 8953 :B 50 & 8 39 E + 53 958 E 48 +:B 50 '< ' 8 B928 :B 528 H2. B3428 82 ; 232253 3 49 42 ; 542B 8&253B25 232253 ' , ' -- " ' :5E 453 ?92 828 :<2B . :58 :B 528 23 < B 42=:B8 8: 253 @:R29 828 +2J 2B28 23 42 <23 32 .:983 5.20 5 ' ' '3 ' 0 .= <'7' +8 B2J B42B253 9 ; + 290 23 E2 B253 952 . : ; < J5 2 42 4 ; : 82+28 ?9' < B 424 58 82 4249 8: 253 ; 8 '+29B 4E 8 2+28 28 3: 253 42 8' JB 53 G2 934 23 +29B8 E2832 ; 258 J23 3: 2538' JB 53 B28<+25429B?92.= 8.953 53"8:5J2 2?9& E2: 3 42 + ' E292 :B 52H2A34B 29B2I0 2B.2 ' '50 0 N' $$S 6 8' 5 .B:R 53 5:98 253B:58 42 ; :B3 " E 20 23 52 8: ; ; 28 <+98 283B 5J2B8 52 :B 58 ; 8 G:9BJ2: 8 E2.' +28 8 5.38 23 4: ; 28 3 ?928 42 29 '$ '0 ' 5 .=2 ; 5 :K B 5 H443:9 ; 4 4: 3 .:5325 B ?9 =M2 < 248' A ' 0<' ' ; <:8 3 :58 4: ; 5 +28 H89B +28 4: ; 528 ' ' GB 528 H89B +28 4:9 528I0 4 ; '3' '<' '4 58 -' # 9 ' -20'#' +0'260/#(' "(407/' ' ##' ;0(@&0%-/' , ' ##'-.##!'&0%' '6*'(' ! 0 'Q3:*B * ; *0540542/0 4@' 2B ; 2 4 4 .3 ?92' $9' 283 <2B24 42 <23 38 3B:98 :9 . : ; <:84 42 .2+9+28 39G 429828 '# $ ' - 0%' '%'*! 3' ! 'Q *B * ; *5 * 4*B&/0 6' R5: 5R 92 42 3 ; 54' IL# ' ' " ' 5 98: B28 <:B9BE98 42 .:?9 +28 "' <+98 29B8 .+: 8:58 .: ; 95 ?9 53 253B2 2+28 23 E22 +2 42=:B8 < B 42 <23 38 3B:98 :9 <:B28 :5 +28 <<2+2 988' <:+R3= + ; 28 23 B= M: <:428 ' 3' '<2B39 8 23 ' <:B32B $' 'D$*@'0/E' ' '4-' "//"#" +0'-/" 2 4 3?92 ?92 : 8 428 ; "32B2 9A IL < 5842 B 5.2 ?9' BB E253 4 58 +28 <:B38 " &23 3 42 G: 8:B:54 ' Q :B*G 5U0 ' ' :B8 B20 < B 32' ' J' 23 4@2.3 E2 ; 253' ' 93 428 B ; 29B8 89B +28 G 5.8 3 428 ; 9238 9A B: 8 :BG 58 7'%32 & 'IL 5 :BG 5 + 332B B20 95 <+ J B2 F ' ?'3C * '#I0*#% MB' "2'-% ; !'e0/5 "'*/%#" ; * / / " 4'-(" %*/(.0-(("0 < 0440'%"/0/(' /*("//"+-(*!' 2*+ + 0/#*(40" #"(4-'0%"($*!' ;0/("%0!%'"(7"/(2*!'0/(&0+ "'(0/(2* + +-(K (-*/' #!0!2!%% 4'-/2" /-' "(%0% (*! . "'0-/ '? $ ' *' ; * / D#" $*'%(6*'(' "% ;0(@&0%-9$ ' ' ;0/E (-7/-$-0-%' #0/(0/2-"/$'0/30-(' ;0//-(@ " + "/%5 #04(&" +*#" + " ' -& (-7/-$-" 2"&!-' , !-' "(% E0//-' ! /' ;0/#-%' '%' 40'%-2!&-"'" + "/%' ! / ;0/#-% #" + "' ' 'Q :B*G *5 B/0 2' ' 2552 42 4B: 3 :939 ; 2B' 55 B0 B2+4J92B ' ': -(' *-& #!0. "2%*8%*!% .-2" $*' ;0//8' '? '4' B '#0/(H' ?' *8' I0 $ ' Q :B*8 *G+&/0 6' $9' <293 43B2 23240 <B 8' +2 :B G+2 'O (' "0/% + *-/(&"(#-%"($*'2"(, !!-& 0.*-%' -& '"/#-% &0 .-&&" , !-' /!"(%*-% $*'30 ; &"' ?' /! ')' ' '*%' *'2"' $ Q :B*8 *@/08 '35' 2B ; 2 42 ; :55:R J2 V 2##0/% , ! " 4"!% 0.*-" -+" 4-"2" 0!@#"((!(#! 4*-#(4'"("/%H '&"(*'#*//0/2"('NN "' + "#" $"*@ #0&-%#' '*-% , !!* / 408-!%0!' ("-7/"!"4*!" &0 2*/K

83B9.3 :5 :9 &253B23 25 42 8:5 .=432 90 42 8 ' :B 32B2882 - # $ ' - * $ 'Q :B*8 P +2 3 52 82 + 2 < 8P 9 <+9B 2+0 &8 82+ 2Y 428 :B*8 *M 25.= 3548/0 8' ; ' ' - ! + 329B ?92 + ' @983 .2 .:54 ; 52 " 428 3B E 9A 9A?92+8 52 <293 82 8:983B B2' + @ 3 5:3B2 ; +=29 B29A0 ?9 0 3B 5 53 + ' .2+2 3 +28 ; :B.2 9A 49 + .8?9' & E 3 33B <40 2 ; G+ 3 95 :B? 3 4.= <<40 $'B ' - ' ' ' ! 2 E: +" 4:52 :B. 3 4 58 +28 :B ; 28 23 R E 889B4 ; 253 +:5J32 ; <8 ?92 @2 ; 4B3 8 G 25 42 &43B20 '2, ' '& ' '7' ' 93B2 : 8 +2 :B? 3 89G 88 3 8 '<2 52 4 58 +28 J +2B28 := B ; 3 <254 53 95 .2B3 5 5: ; GB2 4& 55228' >2 E: 8< B E:3B2 44<4.=2 49 & :< 5 :5 ?92 E:98 E2M ?92 +28 J +2B28 := 5&R ' ?92 428 :B ; 38 8: 253 4& ; 2 ; : 54B242<2582 ?92 +28 9K 3B28 $' " ' '& , ' " @9 +23 "NC:0 4 58 ' 88 832*3*2+2 4 58 95 42 5:8 <:B38 .28 ; 84B G+28 :B ; 38 ?9 0 4 58 +29B8 <B 8:58 +:33 5328 J2 ; 88253 8:98 +2 3B E 42 + B ; 2 238:98 & 5=9 ; 5 34 4&95 . : ; 32^ ' ! ,* ' & , 'IL 9@:9B4&=9' ?92 +28 J +4B28 5&2A 83253 <+980 +28 GB8 38 8:53 :9 2 ; <+:R28 4 58 +28 B825 9A ; +3 B28 :9 42<:B348' ' :B2 3 + G2B40 :B@ 3 ?9' 283 > GB2 <B48 E: B .K . : ; <+' + ' 49B42 42 8 ' 443253 :5' IL 0 82 4 3 42 .29A ?9 0 <B 8 < B +28 .=B43 258 89B +28 9B.8 :9 <B 8 < B +28 9B.8 89B +28 .=B43 258 43 253 25.= 3548 89B +28 J +2B28 23 R 82BE 253 42 B K ; 29B8' :9@:9B8 . : ; 2 95 :B ; 3 93 43B2 "' + ' B ; 20 E J92B@:9B23 59 3 '/# - ' < 3'9' 2 8:B3 8 58 B28<2.32B 5 '8:5 8 5J0 5 '8 'J+: B20 2 3 43B2 :B. 3 988 343 ?9& 93 <B 8 '% ' - ' A ' 28 G: 8 82 3B E +253 4 58 +28 .:9B8 < B +28 :B. 38 ?9' 8:53 " . : ; 2 < B 3:932 + ' E +2 H ! B82 +2 25' + G2B340 ". 2+ ' <B48 ?9& +8 8:53 25.= 548 3B: 8 " 3B: 8 429A .=B43 258 23 95 9B.P .2 42B5 2B 43 53 4 58 & ; <:88 G + 34 42 82 8 9E2B0 <: B 43B2 3B:< B2. :55 88 G+2 23 52 8 E: B < 8 + ' + 5J920 2 ; <4.=2 +28 93B28 42 8&2.= <<2B ' I I' , '$ ' '@9 5 0 'LL J' & ; G 3 :50 ; :9B0 & E B :20+ '= 520 255253 ..95 ; 2 95 :B. 3 8:5 28<B 3 "' + ' .= 58 '# 'E 9' ' J' ! 28 ; 8 42 E:3B2 J + 2B2 5 :BJ 3 E 253 42 82 8 9E2B06 , '0 ' * 'IL J' B E +2B 2A.288 2 ; 253' $9 54 . : ; ; 2 95 :B? 3 3B E +2B 2A.288 2 ; 253' $9 54 :5 '3B E +4 3:932 + ' @:9 ; 42 . : ; :2 95 :B ; 3 ' (' ' -' 'NNB' 2B ; 2 42 @29A' >:92B 9 :B. 3 @:92B 9A . B328 25 8& 889@233 88 53 ". 2B 3 528 B4J+28 ?9' :B4 5 B2 ; 253 52 8:53 < 8 :G+ J 3: B28 H' : . : (' "'*/% %"/!(&"(#-%(204-%0-/"(#!"/%'"%"/-' "/' %*!% %"+4((!" 260, ! /"#"(#-2%"(70&&"'"(#' /* + ; ' " #" 'R' $*', 0%(' C ' 'R + 0'('R B -' ?' - * ' 283 95 < B3 . <2 < 884 " :B ; 2 <B:E25. +20 B4<:54 53 " '?9' 8&283 4 3 25 2 23 <:9B * ' 58' ?92 " 'Q :B*8&/0 8' ' ' D B:<B 434 ?9' 3 ?92 +2 .:B<8 4&95 = : ; ; 2 :9 4&95 5 ; ' 952 JB 542 <9 88 5.20 89<2B :B 32' IL "0 2 4 3 428 3 38 ?92 :5 8 5.20 89<2B :B 32' IL "0 2 4 3 428 3 38 ?92 :5 . : ; < B2 " 95 .:B<8 E E 53' IL%0 2 ?9' B254 952 B ; 42 .:58 44B G+20 B24:93 G+2' IL NO 9<2B 34 <=R8 ?92 42 :B.20 <:9E: B 42 .:53B 54B2' ILC D :K +25.2' F ' ! 8:5 42 :B.2' IL70 283 G 25 :B.2' ' 0 <3 3942 " . : 5.2E: B0 " . : ; G 52B0 " B4 +2.= B0 " ; J 52B' IL 0 # G +2340 3 +2530 2A<2B 25.2' 0 52BJ 2 ; :B +2' IL 0 9 88 5.2 4& .3 :5 23 4& ; <9+8 :5 428 J2538 <=R8 ?928' IL " ' ; <439: 834' 90 9 88 5.2 42 B_ 83 5.2' IL 0 :932 . 982 42 ; :9E2 ; 253' IL B:8 9 8258 ; 43 <=R8 ?92' F0 :B.28 42 + ' 5 39B20 IL 70 53258 3R0 452BJ 20 2 . . 34 428 .= :828' L 6 82 4 3 428 .= :828 5 32+2.392+28 23 ; :B +280 / 0 .3 :5 2A2B242 89B &28<B 3 < B +2 4 8. :9B80 +2 83R+20 +28 2A<B288 :58 0 82 4 3 49 B 8:552 ; 253 23 428 <B29E28 0 0 $*'2" #!! /' (!9"%' , !0&-%#((*&-#"(, !!-& ' '/@ $"' + "' N0 "0 0'02%"'" "% .-7!"! ' ' "/ 40'&0/% # 4"-/% '" "% #" (2!&4%!'" 'NN %0 " , !!-& 0 #" $*'%' #"2*6%'0-7/0/% #0/(&"(26*("('NN N0 '0/#" , /0/@ %-%# 0 ?*$"%%"' ' F0 0 $*'2"'NN 70 0 $*'2" #"' F 0 0 %*!%" $*'2"' NN 0 " $*'2" NN 0 0 " $*'2" '$*'2" *! . "%" ' #" .-. " $*'2" 'NN 0 0 4'*4'-#%# , !-' $0-% , ! " &" 2*'4(#!! /' 6* + + " *! #!! /' 0/-+0 0 0 ! / " 7'0/#" 4!-((0/2" V#!02%-*/' %' #*!# #!! /' 7'0/#" $*'2" #" 2*'4(' .*-' #" &0 $*'2" /" $*'2" #! "'2!&"' / 26". 0& #!!6" 7'0/#" $*'2" S" /!0- 40(&0 $*'2" #" %'0.0-&&"' ' "(#"! :' ":%'#+-%#(U#! + !(2&"J * /% 4&!(#" $*'2" 40'2" , ! " !/" (*!@ %-"/%&" + !(2&"' "% , ! " 40" !0!%' "' *!"(%@ #-'" 40" &" %" /#*/' , !-' "(% 0!((-' &" 4&!($*'%' (!":"'2" -+ + #@ #-0%" + "/%' &" + " ! . " + "/%' ' ' --'

>2 52 ; 2 8:93 258 <+98 ; ' :B.2 ; & G 54:552 " ' 0 A ' 0 ' 4< B2M <B: ; <32 ; 253 E:3B2 :B.2 G 3392 ' 1' 4:552B ' + ' :B.2 " E:8 GB 8 + 5J9 88 538 'U ' E ' ' :B.2 428 =: ; ; 28 5&283 283 ; 42 ?92 E 5 '*. 5? + EB28 23 .2+2 428 .=2E 9A 42 .253 8: A 53 23 ?9 5M20 ' ! ' " ' - * ' " 4 + , ' ' :B.2 42 3:93 5 ; ' ' B2.9 8:5 <+98 = 9 42JB4 ?9 54 & 5 ; ' ' <B 8 3:932 8 ' .B: 88 5.2 2+2 44.B: 3 ?9 54 +28 ; 98.+28 52 B2? : E253 <+98 3 ; 2 5:9BB 39B2 4J +2 ' +@ ' 28 =: ; ; 28 ?9' E 253 2 ; <+:R8 3:932 + ' :B.2 42 +29B .:B<8 ?9' 25 E 253 ; 4 ; 2 G9820 8&+ 283 <:88 G+2 4&25 G982B 93B2 ; 253 ?92 < B & : 8 E234 23 + ' 44G 5.=2 ' +' ! ' <' 0' 4 58 ' #2B.9+2 293 25 < B3 J2 + ' :B.2 " ?9' B 25 52 B48 832 #4+2520 + ' G2 934 ?9' 3B : ; <=2 42 + ' :B.2 ; 4 ; 20 4) ' ' LL 2 3:932 8 ' :B.20 93 53 ?92 :5 <2930 988' G 25 ?92 :5 <293' B 53 42 3:932 8' :B.20 ' ' 25 5328 43 3 " 8'3: +23320 ?9' 82 . : + 3 42 3:932 8 ' :B.2 25 E29B 42 ! 33 0 ? 2 ' ' IL ' :B.28 4J +280 " :B.2 4J +20 " 4J + 32 42 :B.2 :9 42 :B.280 25 89<<:8 53 ?92 428 429A .4348 +28 :B.28 8:53 4J +28 IL 3B2 42 :B.2 "0 43B2 882M :B3 <:9B' 283 42 :B.2 " +9332B .253B2 3B: 8 = : ; ; 28 IL B 2A3258 :5 3B2 882M = G+2 <:9B0 :90 B:5 ?92 ; 2530 882M 5 8 <:9B0 230 J454B +2 ; 2530 43B2 . < G+2 42 283 42 :B.2 " E:98 . :5E 5.B2 283 G 25 42 :B.2 " B2 .2332 G2E92 IL :9B 42 :B.20 .3 :5 ?9' 42 ; 542 G2 9 . :9< 42 :B.2 :9 4& 4B2882 23 J' 8:+93 :5 :5 =29 B2982 4&952 JB 542 4 .9+34' IL :9B 42 :B.20 4 58 +28 G2 9A* B380 82 4 3 25 ; 9E 82 < B30 428 2 238 <+98 4 . +28 ?9& JB4 G+28 IL & E: B 5' :B.2 5' E2B390 43B2 4&952 . : ; <+2A :5 44+ . 32 23 J' 5&23B2 G:5' 'B 250 . < G+2 42 B 25' &283 +2 8: +2 42 > 5K E 2B0 5& ' 5' :B.2 5 ' E2B39' IQ 58 +28 ; 43 2B80 ; 5:29EB28 :9 :<2B 3 :58 42 :B.20 .2+28 ?9' 2A K J253 428 2 :B38 . :58 42B G+28 23 428 << B2 +8 <9 8 8 538' ' B E 9A 42 :B.20 3B E 9A ?9' 2A J253 2 ; <+:' 428 :B.28 ; 98.9+ B28' IL & , ' " , ' 2 :B.28 49 .:B<8' 2 ; + 42 8253 828 :B.28 9J ; 2532B' 3 <+98 ?92 828 :B.28 52 <2B ; 233253 &43 +3 H82 B23 B2B + ' B28:+93 :5 ?9& E < B 82 4 58 8" 42 ; 4B2 ; + 4 2 230 <+9343 ?92 42 E: B + 5J9 B +28 B28 E22 +9 0 8 828 :B.28 52 +9' B2 E25 2530 82 .:54 ; 5 3 25 B254 53 +28 8.2 58 " B253B2B 4 58 + ' E 2 <B E420 '= ' 29 " <29 +8 H ! 253:B 23 2+2 ; ?92 B2<B B253 +29B8 :B.28 ' 9GW' ! ' 48:5 3: ; G ' 988 343 89B +9 0 23 82 ?B2E > 53 42 828 :B.28 +9' 4:55 '3 53 42 .:9<8 42 <: 5J8 23 42 < 248' '< / ' E0 <' ' 0 ' :B.2 42 J20 4<:?92 42 + ' E 2 : ' :5 ' +2 <+98 42 :B.2' . 520 4 58 + ' :B.2 42 8:5 "J20 54 E2.' 95 ..29B 3254B20 95 28<B 3 +2A G+20 952 B2 +2 = B ; :5 29820 4:55 3 " + ' + 5J92 B 5. 82 95 .= B ; 2 ?9&2+2 5& E 3 <: 53 29 @98?9& +:B80 ! $' ' & ' " * ' IL ' :B.2 49 32 ; <4B ; 2530 .2 ?9 0 4 58 +2 32 ; <2B ; 2530 B254 54 E 49 . < G+2 42 B48 832B "42 JB 5428 3 J9280 4&2A4.932B 42 JB 548 3B E 9A # 3B2 4 58 3:932 8' :B.20 E: B + ' <+25 3942 42 8' E J929B' IL 3B2 4 58 3:932 8' :B.20 82 4 3 428 B28 <:+3 ?9280 @94 :B28 :9 93B28 ?9' 8:53 9 <+98 = 9 <: 53 49 42G 3@ 23 ?9' <B4: ..9<253 33253 :5 <9G+ ?92' & B2 .253B2 ! ' 42 + ' = +:3 8 988' :4 2982 23 988' G89B42 ? 2 .2+2 4& BG 5 B 54 2B0 43 3 4 58 3:932 8' :B.20 ' 9 '$ ' >, / '3' E90 <' ' 4 58 ' - Q 9 88 5.20 89<4B :B 32' :9B32B4. : ; <2582B0 ; ' :B.2 2833B:< <23 320 ' B 0 ' +29B ' < B9 H 9A + G2B3 58 ?92 2&23 3 ; 2 .:53B 532 ; <:B3952 42 B2. :55 3B2 ?9& R 243 9 . 2 952 :B.2 89<4B 29B2 ?9' J:9E2B543 3:98 5:8 ; :9E2 ; 2538 23 .=43 43 5:8 .3 :58 44B4J+428 E2.'952 93:B34 8:9E2B 520 '# ' 6 ' ' 0 + ' " ' $92+2 :B.2 E:98 <293 B6 B .=2B 428 ; 58 3:9328<9 88 5328 42' 290 ?92 E:98 BB 32M < B E:8 B ; 28 23 4:53 E:98 3 B2M 89B E:98 +28 E25J2 5.28^ ' 9 , ' :9E252M6 E:98 . : ; ; 253 ! : 820 22 8 BE 329B 42 290 GB 8' 93B2 : 8 + ' :B.2 4& ; +2.0 ' 'A ' ' * / 2 JB 54 E M B .B93 ?92 8:5 2A<24 3 :5 43 3 882M =29B2982 ' 8& 52 ; 233 3 < 8 428 E 53 J28 .2B3 58 9 B 8?92 4&952 5:9E2+2 G ' 3 +20 ?9& <B28 3:93 +2 44848<: B < :9E 3 J J52< .253B2 + ' :B.20 ' <, ' 0 ' 2332 8:9%6 ; 88 :5 H49 B:' 42 B9882 5& ' <: 53 25. B2 B 8 89B4 <:+4:5 P " 8' :B.20 @:932 + ' 2 5320 +28 :B32B28828 ?920 < B <942 B0 + 882 " B444B .0 8 '42 5.2 25 . :5E: 32 25. :B2 : ..9< 3 :50 (' 'A " ' ' ' :B.2 + ' <+98 :B32 &283 95 .:29B 55: .253 E 'L ' - ' , ' 0'E E: B :B.20 E: B 952 5 +925.2 .3 E2' :5 2A2 ; <+2 9B 3

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E 58 .328 + '< 88 :5 4:' # '4:' 536 :+0@2 ; 2 2 B:R8 :B32 ?92+2 B:R82B: 3:G2R0 '+ ' " ' 9' <+98 :B3 4:'8:5 ; 30 +52 3 ?92 < B+2B23 8&28G 33B20 '3G 'B ' 'E:98 ; & ;2M 93 53?92 '4 328 0@2 89 8 89B2 ?92 0 <:9B E: B ; 'G:552 JB .20 B 25 52 E:98 82B ' :B3 H4 .+2I' _ B20 5U0 '!75' AABE' R 53 283 'G 25 e ': 258' < B +28 @ ; :8 58 0 ' :B32 G 33 +20 ' ' '5&283 B 25 ?9' G 8 3 B4 882 8' :B3 952 5 39B2 G 25 5 20 5U' 0 "F ' 9' :B3 42 &2+:?925.2 42 .2B:0 <+98 29B8 253B: 253 25 4 ; B 3 :50 ; ' 0 "F ' 2 '9+8 +9'G 3 :B30 \ 7' 58 2 <+98 :B3 494:9G320 '50 3:2' 283: 38 29+ 98 32 &G: ; ; 2 49 ; :542 +2 <+98 :B3 H4 +. +2@ _ 325 B0 . B +52 82 < 88: 3@:9B ?9& +52 83 ?92+?92 :+ 20 '1!- '5#' '3B:9E: 3 +2E 5 882M :B3 8 58 2 90 G9E 53 (7' ## ' - ' =7 ' ' 3G' 9:.AE9 =28298 82 8 53 :B30 23<B: ; 233 53 ?9& + E 254B: 3 9428898 4 ' ! 5:3 9B20 9 ' ,& ' 2 2B 253B '8' '424 58 + '32BB20 ?9' 283: 3 :B32 23 JB 8820 ?92 59+ 52+2 <293 BB . e0 '3G ' 29+A ?9'283: 253 <+98 38 23 <+98 :B38 <<:B3: 253 49 G: 8 ' .29+M ?9' 283: 253 <+98 <23 +8 23 <+98 : G+280 428 =2BG280 '+ ' F' G2 ; 83:.+2 +29B 5 ' :B3 23 2 ; 20 ' ! ; 83' C' 2 +:9 53 .: ; ; 2 95 :B3 =: ; ; 2 42G 250 ' 3:50 23' 28 ! .24:5 258+9R 25 8.29B253 :B3 ; 9E 8 JBG0 23+&25G+ 8 ; 2B253 :B30 '0 ##&7 '%7' 'G BG2 :B32 23 28<28820 +2 B:53 + BJ20 +2 52M ?9 + 9R '?- !-'%' 2+ J5 '@9B2 23 8829B2 8 E: B G 25 ?92 '283: 3 <:9B95 :B342 <+ * '8 B H<23 32 J92BB2I ?9&:5 E:9+: 3 33 ?92B 4 58 + ' .:9B 49 :9EB2U 0 'K ' 0 N ' E: 3 283 '.:5 3B 53 42 82 B23 B2B 25 8:5 +:J 8 23 R 325 B :B3 . 5? :9 8?.'=29B280 ; ' ' D - ' (!' :9BJ9 J' 3 <B:E25P0 !# 3 28< J5' 7 # 3 <:B39J' 23 334' !# 3 49 + 3 5 !# '0Q :B*3 /0 4E' !: 3 3 + 25 2 ; <+:R2 25 32B ; 28 42 598 ?92' +82 ; 23 9A 254B: 38 :9 +2 8:5 4: 3 GB2B25 :B.+' LL 9G83 53 E2 ; 253' : 4 '95 :B32 ' &283 4 3 93B2 : 8 <:9B 583B9 ; 253 5: ; ; ' :B320 < 5:' :9 < 5:' QE:R' ! @'L@ ' 7-' 28 +:B32 - ' (!' 3 +' !# !' :B3 ! 'Q :B*32* ; 5/ "5' LL Zb' E2.' 952 JB 542 :B.2 ; 58.9+ B2' '&:5 B <<2 :B32 525323 < B <+98 29B8 .:9<8 89..288+ 8 952 + ; 2 42 2B ; 53 20 2+2 <2B4B '8 'E2B39' ; J5 3 ?920 'C -' G' OO' < ' "" 0 4 58 ' 10 + 82 4 3 988' 42 + ' :B.2 ?9& '952 .=:82' 2+ '3 253 :B32 ; 253 \' I ' ; 9 6 (+20'] B 2A3258 :500 E2.' E J929B' :5 G: 8 H4&95 'GB2I' E 3 <:988 ' :B32 ; 253 0 23 828 GB 5.=28 8& 3 253 +2E 28 \' . 982 428 JB 5428 2 9A ?9' B BB:* 8 2530 'D ' (& " 'SAA 0 %' LL 28 :53:9B80 428 ; 98.+280 23.' :B32 ; 253 4288 5 80 428 ; 98.+280 428 .:53:9B80 23.' 4:53 + ' :B ; 2 :9 + '8 ++ 2 283 3B\8*<B:5:5. 2' LL 5 4 3 4 58 95 8258 5 +:J920 25 < B+ 53 49 E 8 J2' 428 3B 38 ; B?9 8 :B32 ; 253' '6 J' E2.' 52B42' 29B < B+2 :B32 ; 2530 +28 .:5@9B20 +28 < ?92 & <<9R2B 25 3:53G8 ; 3 + ' :B3952 <9G+ ?920 " ' s '@ 5! '0 ' & ; 53 8' :B32K ; 253 8&95 3 O .2 ?9& + ; 2 $9& + 25 3 4 58 8:5 .:29B 952 < B3 42 +9 * ; 20 '& !"!# ' ; 0 ' 8 @.'E: 8 8:5 28<B 3 :B32 ; 253 BB 3 0 '@ # !#' '"' :5 ?92 E:3B2 G:5=2 B :B32 ; 253 & 53 B28820 '07 (& # ' ' =B 8RG9+20 O ?9' +28 = G 58 E 253 :9 ; '428 B ; 28 23 42 & BJ253 +:B8?9& + 253B2<B 3 42 B 3 G+ B + ' + G2B3 ' \' 3= 5280 <<9R ' :B32 ; 253 +29B 42 ; 5420 @ 'K ' -('U<75' 3' [0' <' C"0 4 58 8' / 2582B :B32 ; 253" .B B2 :B32 ; 2530 E: B 428 <258 280 95 83R+2 ?9' 54 ?92 952 JB 542 :B.2 4&28<B 3' 28 8253 ; 2538 E J:9B29A 42 &\ ; 2 < 88253 4 58 +2 + 5J J23 23 ?9' <2582 :B32 ; 253 < B+2 42 ; 20 'D#7 7' # (' '<G.2 <2 ! 8 53=B:<2I 283 4&95 G:93 \' & 93B2 O <29 <B28 4 58 +2 8823+2 428 8 3 B28 42 28* <B 9A0 23 .&283 42 3:9328 +28 < .28 42 ! :+ \B2 + ' <+98 :B32 ; 253 .B32' ; ' , '" 'C! A# - ' # ' J8P :B ; 253 H +I +2 <+ 53 \' + '+2' H.:9* 39 ; 2I 42 8 '32BB20 1&' ' ' .! ' 1 ' I/ :--I' (' $9' 42 828 B ; 28 9 :B ; 253 B24:32M0 :52' <' N' 'O I * 'B:R8 23 + 'B:R52 :B ; 253 +28 =:5:B2B2530 D # '+9' 9 8 ; :93 <+98 :B32 ; 253 498 R ; 28 ', H+2 492 R ; 28I + ' 2B ; 'H:B3 10 3G'-:' LLAE6 8' +8 283: 253 8' :B ; 253 :G+ J 8 25E2B8 +2 B:' 42 B 5.2 ?92 ' -((' 0' 0' NNP LL AE 6 8' +G' 283:R253 +:J2M 3:9328 : 8 :B32 ; 2530 'NCN - ' (!' !# ' 23 +2 89 A2 - 3 G:9BJ9 J5' !# -3 5:B ; 0 # 7 - 3 <B:E25P0 !# - 3 28* < J5' 7 # #- - 3 3 + ' !# - ' 58 & 5. 25 B 5? 80 !# - ' :9 !# - '283 .: ; <:8 '42 !#' 9 2 ; 5 50 89 E 53 & 5. 2552 B J+2 428 +@2.3 8 + 3 58 25 ' 23 49 89 A2 - @ 'Q :B*3 *< * *5:/0 B' ' ; ' ?9' 3 4:55" <254 53 ?92+?52 3 ; <8 \' & 583B9 ; 253

?92 5:98 5: ; ; :58 9@:9B4&=9' < 5:' QE:R' .2 ; :3/ - ' (!' 2 5: ; 'E 253 42 + '4 2B25.2 ?9&:5 B2* ; B?9 '4& G:B4' 253B2 +28 5. 258 .+ E2. 580 + + ' .:B420 23 53 < 5.22 < B95 G22 42<+9 ; 20 &23 3 3:9* @:9B8 42 + ' ; 2 ; 5 2B20 3 54 8 ?92 &2 ; <+:'49 ; B32 9 4 58 +28 5:9E2 9A .+ E2. 58 <2B ; 3 42 B2 +28 !# '23 +28 - ! ' 28 .+ E2. 58 9B253 4:52 5: ; ; 8 .+ E2. 58 \' :B32 23 < 5:0 < B GB2* E 3 :5[GB32*< 5:0230 25 GB2J2 53 3:9@:9B80 3 53 3 !# '3 53 3 - ! ' 9@:9B4&=9' .2 42B5 2B ; :3 283 'Q :B*32*B *8/0 ' ' 29 B J9+ B2* ; 253 :B3 ' <:9B B28 832B 9A 33 ?928 4&95 25* 52 ; ' B +28 8: 58 4&95 8' JB 54 B: 0 + ' B 5.2 253 B2 5&283 <+980 <:9B 58' 4 B20 ?9&952 829+2 :B32B2882 ?9' ; :53B2 42 3:98 2 3 8 95 B:53 B24:9* 3 G+20 'C #), C#' LL J' &283 \' H+ '4 83B G9K 3 :5 428 G 258 23 428 ; 9AI ?92 +28 ; < 28 82 B2* 3B 5.=253 .: ; ; 2 4 58 +29B :B32B2882 ; <B25 G+20 .&283 42 \' ?9& G'@233253 = B4 ; 253 428 3B 38 .253B2 + '8 J2882 ?9'B J 3 +2 ; :5420 '@ # !- '0#!)' 5 " ' # 7 * '# 6S 6 8' 2B8 5:98 52 82 325B 'H3 254B I' :B32B28.2 52 3:B8 H3:9BI0 @!Y M AAE +' LL A ; 6 8' 58' 9B253 952 < 2.=2 H< .2I' 4:9 3 58 ?92 + 8: 253 +:B E:+253 8 42 2B8 H=:B8I' :B32B2.=280 ?92598 52 +:B 42 254:30 1&#'" 'D - ' <'0N" ' 2 ; ; 20 < B 5:83B2 .:9839 ; 20 25<:B32 258:5' 4:9 B2 +2 . 2 'H.=2 I 5 5: B03:938: 3 .2 ?92 .28: 3 :B32B2.20 1 B' 9E O I' 8' 5 ?92+?92 :B32B28.2 ?92 .= 258 E: * 8253 H +253I' 3B:9E2B +:93B2 'C! "7 ' '0' %C0 4 58 ' \' ; :532B253 5:' J2530 23 '53 32+2 28* 3:9B ; 2 $92 3:98 E:53 28.B 53' :B32B2882 J J5 2' H7 (' "7N' 'O I' 8' ! 8 + ' :B3B2882 42 ; :5 .929B0 :53 E:83B2 .2 + 93 +2 829+ E 5?929B0 &283 B2 492 ; <B25 G+20 ' ' 50 N"0 E2B8: B '# $ ' !# 3 4'*."/5@ !# ' !# # 3 20%0& !# 3 "(407/' !# ' 0' #$-'-.0%-*/' (!"(% $0-%"' #"' !#' [' 10-#"' #!! /' (!$$-:"' ! '*!' !# ' ' , ' '2* + + "' #0/(' 1-%0&-"/' !# # ' !# (A '#$-'-.$- #"'(!# '2*!'(" LM 'Q :B63 * * G+&/0 ! " ; '$9' <253 _2 :B3 'O.-I' (' #.-("' , ! "&, ! " &-"!' $*'%-$-0 ; &"' 4*! "8 0(("*-"(*/' 20 + 4 ' !S ' " ' " ' $G 0V' # ' !# #'L 6 0 'Q :B*3 * * 50 5* /0 " ; ' $9' :B3 20 ?9' 9J ; 2=32 +28 :B.280 25 < B+ 53 428 B2 ; 24280 428 + ; 2538' 2 E 5 283 :B3 53 LL 9GK 83 53 E2 ; 253' 28 3:5 ?928 8:53 428 :B3 538 , ' + 'Q :B63 * *\ *329B/0 8' ; 2+9' ?9' :B3 2 952 <+ .20 ?9' 8&:..9<2 42 + ' :B3 K . 3 :5 bF' 'O I' (' 1-7/*'0!2"' #" (' $*'%-$&"0%"!'(#"' 2"'%"+4 ('&[' "(%*-%' #" 60!(("'' &" (' 2*/%'1"(20'4" (' "% / " ' &"(04&0/&"40(' "G 'K '--' R ' ?' !# # ' 'Q :B*3 * \ *8 :50 25 E2B80 42 8 A 8R+ G28/0 ' ' LL ' .3 :5 42 :B3 2B 952 <+ .20 95 <:832' 5 3B E +2 ' + ' :B3 . 3 :5 42 .2332 <+ .2' ' 6 & B3 42 :B3 2B' 23 5J 5 29B 253254 G 25 + ' :B3 . 3 :5 LL + 82 4 3 25 .2 8258 9 <+9B 2+ 394 2B +28 :B3 . 3 :580 8&253254B2 9A :B3 . K 3 :58' YO 9EB J2 42 4 25820 :9 2582 ; G+2 428 :9EB J280 B2E 398 :9 5:5 42 ; P:552B 20 ?9&:5 +2E2 93:9B 4&952 E +2 <:9B '+ ' 4 254B2 .253B2 +28 253B2<B 828 42 &2552 ; * +8 82 <2B89 4 253 ?92 428 :B3 . 3 :58 328 < B + '5 39B2 ; ; 2 3 253 G2 9.:9< <+98 84B28 ?92 .2+28 42 & B30 K ' 1<75' 3' A 0 6 < B3' < ' ""0 4 58 <:9* ' 28 E 28 .= 5: 828 5&:53 @ ; 8 29 4& 93B28 :B3 . 3 :58 ?92 .2+28 ?92 +2 G:5 8258 58<B 3 \' 3:9328 +28 5 3 :58 E 53 &98 J2 42 B3 +2B 2 '95 :88 0 95 B2 ; < B30 9 2 :B32 ; 9B +2 23 428 3:9B80 'C(7# '"'LL 5' .2 8258 + 82 4 3 89B3:93 9 <+9B 2+ - ' 'O I' 8' $9 54 +28 5J+:R8 49 ; B.=' .-I' B253 'JB 53 :B3 . . :50 '<+ .2 8 58 88 93B25* 4 B253' , / ' " '1& # ' ' <'"NC0 4 58 + ' H 28 5J+ 8I 2 8:53 +2M 3:3 2 ; 253 5 +29B :B* 3 . 3 :50 C ' "7' / ' "> # - ' <' "C%' 'O I' (' 5 2582 J52B: 3 +28 ; 3=2 ; 3 ?9280 + ' J2:JB <= 20 + ' :B3 . 3 :50 23 ?52+?928 + 5J928 *E9+J B280 ' ' A ' ' <:4B :B3 . 3 :5 :9 <+98 JB 542 829B23 '4284 38 88:.32M 82 3 ?92+?92 .:5K E253 :50 "G 'K '-') ' 28 3B25.=228 23 :B3 K . 3 :58 49 . ; <0 $ '?# ' Y) - ' (!' 3' !# ! - '42 !# # ' :BK 3 2B 0 'Q :B*3 * * 0 2/0 # ' 0 2549 :B30 <+98 :B3' :B3 '< B 95 G:5 B2* < 8' 58 0 X53B2 +28 E2538 :B3 '< B &\'20 58

+ '59 3 428 GB 38 95.= 52 [' +:5J8 B ; 2 9A 2 <+ 3 [' <B:3 J2B 42 8:5 < 8 : ; GB J2 5 <29<+20 G+2 25.:B0 42 @29528 BGB 882 9A0 7 '@ -(' 4' ">? 7" ' LL ' 2549 < B 428 :B3 . 3 :58' 52 E +2 :B3 22 < B B3 23 + '5 39B2' 2 B:' 42 92420 4 58 +2 .: ; ; 25.2 ; 253 49 8 2J20 4 8 3 ?9& + 52 .: ; <B25 3 < 8 .: ; ; 253 952 <+ .2 G 25 :B3 2 23 ; 95 2 4&952 J ; 8:5 89 8 532 <:9E 3 3B2 <B 820 '1& # '$$$'F 'Q :B*3 * * /0 @2' :B3 80 5:98 :B3* :580 E:98 :B3 2MP ?92@2' :B3 20 ?92 5:98 :B3 * :580 ?92 E:98 :B3 2M0 E' ' LL 6 254B2 :B30 4:552B 428 :B.28' 23 2A2B. .2 283 <B:<B2 \' :B3 2B +2 .:B<8' 2 G:5 E 5' :B3 2 &283: ; . ' &2E 5J2+ 832 52 5:98 3 < 8253254B2 ?92 & 5J2 +2 .:58:+' H> * 898* GB 8310 ; 8 829+2 ; 253 ?9& + +2 :B3 0 " ' <B&!# ' 7#' ' # # ' " ' ' 1' 0 < ' 7 ' 2 8 5J ' ' : ; ; 2 +2 .=B 83 5 8 ; 2 ' <B 8 5 88 5.2 42 + ' 428 9 828 :B3 '+ ' + J920 .: ; ; 2 + ' ; :B3 42 :* + J5' E 3 :B3 ' +28 <B:3283 5380 9 ' /7 ## '('5'" ' # -(' LL 2B ; 2 42 <2 539B2' :B3 K 2B 952 J9B20 +28 ; 2 ; GB28 4&952 J9B20 +29B 4:5* 52B <+98 42 JB:8829B' LL :B3 2B +28 32 5328 0 +28 B25K 4B2 <+98 E J:9B29828' LL :B3 2B +28 : ; GB28 23 +28 3:9.=280 +28 B254B2 <+98 GB9528 23 <+98 :G8.9B28' ' J' '82 4 3 9 8258 ; :B + ' 28 ; 24 3 3 :58 :B3 +253 &28<B 3' :B3 2B +2 .:9B J2' &2 2 ; <+2 42 ; ' ; :B3 +28 :B3 2B ' ; 29A0 '0! '!'M' :B6* 3 20 2B ; 8 .29A ?9& +8 9B:53 8 49 380 ; 'K"# (' ' ' : ; ; 2 +2 .=B 83 5 8 ; 2 ' <B 8 5 88 5.2 42 + ' .B: A0 .2 8:53 988' +28 ; +=29B8 ?9' +2 :B3 2530 'K -'"?-/ ' +2 H& J+ 82 . 3G:+ ?92I 25* 82 J52 ?92 5:98 ?9' 52 <:9E:58 B 25 42 5:98* ; 280 <:9E:58 E2.' .2+9 ' ?9' 5:98 :B3 2P 25 32+2 8:B320 ?92 &=: ; ; 2 5& 'B 25 42 ?9:'82 J+:B * 2B0 5 '42 ?9:'82 .:5 2B 25 +9 * ; 20 '0#! ; ' " ' # 7 -' " ' #! ' <B (' " ' ! - ' " ' (!- #!5' :98* ; 2 .253B2 E:98 :B3 2M ; :5 .:29B0 ' DC -' - 'R' LL :B3 2B ?92+?9&95 4 58 952 B 8:+9* 3 :50 &R' 8 +0B ; B0 &R' B2 <2B8 832B' LL :BB:G:B2B0 .:5 B ; 2B' 2+' :B3 2 +28 8:9<?:58' H +2I ' :B3 2 25 3:' .2332 5.+ 5 3 :50 '0 - C ' 0 ' +98 29B8 . B.:583 5.28 23 4 E2B8 ; :3 8 .:5.:9BE#' B253 \' B2 5 +3B2 H\' .: ; 2I' .2332= 52 ; <+ . G+2 42 + 'B:'93 '23 \' + ' :B3 2B0 ' ', # ' " ' 'E0 ' ' :93 :B3 2 4 58 +28 JB 548 .2332 4 5J2B2982 ; <B288 :50 '1 # '0#! ' LL YI' 2B ; 2 42 J92BB2' :B3 2B 952 <+ .20 95 <:8320 &253:9B2B 4&:9* EB J28 42 42 2582' & +8 E 253 <B 8 25.:B2 4 A 9* 3B28 42 5:8 <+ .28 E2.' 95 < B2 + 89..\8 H2&283**4 B2 25' +28 B2<2B4 53 <B\8 +28 E: B :B3 2810 5:3B2 B:53 \B2 25 82B 3 ' ; 2 +29B 3 30 23 +8 & 9B 253 ; 29A :B3 22 ?92 .29A ?9' @98?928 .'25 :52 29 + ' .: ; ; 88 :50 E:BB' + 'C"' $9& + 2 ; G2+ 3 .2332 ; J5 ?92 23 4 + . 2982 ; 8:5 H = 53 ++RI0 :9 G 25 ?9& + ; 95+3 95 . ; < 9 ; + 29 4&95 < R8 2552 ; ' 23 ?9& + :B3 \3 952 <+ .2 ' '+!7 ' "D!7#N !-' >2 89 8 95 <29 + J20 25 ; ' ?9 + 3 42 B 5? 8 4&25325 ; 2 4 B2 ?92 .&283 95 .=2E + 2B 42 :33 ?9' :B3 ' +28 B4 52++280 9 ' + ' 1 & # - ' '5:E' "CC 'L' "0 2 :B3 2B0 5'# ' 2E 25 B <+98 :B3' 23 25 53 82 :B3 2 3:98 +28 @:9B8' +98 +&Y + 82' 82 :B3 30 <+98 2+ 2 * 8 3 .+ 32B 8 ' 8:9 ; 88 :5 23 8 ' ; :4283 20 ' , # '%6 5 # ') ' "N' LL J' &28<B 3 82 :B3 2 < B & 394:' 2 42EB 3 3B2 988' 5:3B2 95 ?92 <25822 2 5:98 :B3 2B .=2 ?92 @:9B .:53B '5:980 ' ! - ' ' 2 ..29B 82 :B3 2 4 58 + 'E2B390 ' + S' 2 G0 ?9&2+2 +9' E 3 4:55 'H 9 .M B 2BB2I 25 "N7 '5 ?9 3 ; +=29B2982 ; 253 E2.' +2 . B .3\B2 42 8' ; GB20 23 .2 . B .3\B2 82 :B3 ' < 30 + ' <B2 ; 2B2 249. 3:5 ?9& + B2P930 9 ' .7 '50 " ' ' E2.' 2+ <82 49 <B:5: ; ' <2B8:552+' =3 ?92 @:9B E:R 3 .B:+3B2 +29B :'23 :B3 2B +29B .= B 3 0 ? '1 # '1! 'LL & B2B ; B' 2 :B3 2B 4 58 8 'B 8:+93 :5' LL 6 2 4:552B &95 \' & 93B2 428 :B.280 49 .:9B J2' 8 8&25.:9B J2530 G' 82 :B3 K 253 +28 958 +29B8 +28 93B28' +8 82 :B3 253 ; 9392++2* ; 253 4 58 +29B8 B 82493:58' LL N6 &253:9B2B 42 :BK 3 . 3 :58' &2552 ; '82 :B3 2 4 58 8:5 . ; <' LL 2 :B3 2B 4 58 95 B< 8320 8&R' ; 233B2 25 3 3 42 325 B .253B2 +28 33 ?928 42 &2 ; 2 ; - ' 'O I' 8' B 3:98 +28 :B8 5J+: 80 42 ?9:' + R' '3 530 = 832 9A0 E ++280 . 32M 82 E:53 :B32 530 H7 ('"F7"" ' 'O I' 8' 3 283: 3 & 53253 :5 428 5* J+: 8 ?92 ' G' 4235 B: 253 3:932 8.:882 <:9B + ' . 982 42 .2 ?92 +8 &283: 253 :B3 28 25 .2+2 8 8:5 428 B 5<: 8 H+28 E 253 <B 8 <:9B 9A + B28I0 '90 90 YM' !28 H+28 5J+ 810 8:53 :B3 2M +2 580 $92 [' <2 52 25<:9BB2M .=2E B0 C ' 49 / ' " #A - ' '"C7' L/AE 6 8' ' + 'E 542 52 82 4 J2B2 8' 2+2 52 5:98 9J ; 2532 23 :B3 2 ' ' ' ' .:58. 25.2 :B3 2 B B ; :.253 .253B2 + '3:B39B20 '90 "C' ' < 88 9 3B E2B8 & 5522 2552 ; 2 <:9B

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?9ﬂ:5' ; 23' +28@29528' : . 2B8' 9A' BB 38'LL :8828'
898'+2' :540' 82' 4 3' 4ﬂ+ ; ' 254B: 3' 42' + ' ; 2B0' 5 :5'+: 5'
49'B E J20' : +'+2' :54' 283' <+98'<B: :54' ?92' 4 58' +28'
b54B: 38' ?9 ' 025E B:55253' 28' 5 E B28' .=2B.=253'
+28' :8828' <:98'8' ; :9 2B'LLF6' :882' 9A' + :580' 8283'
4 3' 4952' .2B3 52' +:J2' 4 E 53*8. 52' 6' <4B' : '
82'3 255253' +28' + :580' +28'@29928' J258' ' + ' ; :42'
7' B29A' <+ . ' 9*42B 53' 49'G + 5. 2B' 4 58'
32+ 2B' 428' ; :55 28' LL 6' = 94 B2' 42' JB28' 4 58'
+ ?92++2' +28' <+: ; G 2B8' :54253' +2' <+: ; G' ' ; 233B2' 25'
3 G+28' ' E: B' 4 58' +2?92+' +28' :5429B8' 4 <:9 ++253'
+2' :54' 42' + ' . :9.=242' 8 G+2' ?9 ' 283' 4 58' +2' ; :9+2'
' :882' ' .G 9A0' .B29A' . BB ' : ' :5' . :5K
82BE2' + ' .G 9A' 32 532' LL F ' 9E28' 2532BB 28' 4 58'
+28?92++28' +28' 3 5529B8' ; 233253' +28' .9 B8' <:98' +28'
.:9EB B' 42' 3 5' LL :9.=2B' 25' :88280' 4 8<:82B' +28'
.9 B8' 4 58' +28' :8828' <:98' +28' B254B2' 5. :BB9<3 G+28'
' : B' 42' :88200' 8:B32' 42' <: B2' 4495' J: 3' 8 9'
E J2' 0
-' # ' A ' 8 ' 5M' 25' + ' :882' 428' + :58' : ' H B'
5 2+1' 93' 25M0' ' ' ' ..AA5B' LLA56' 8 ' 9 ; 2'
H : ; 21' 9' ; 8:5' 29' P' :B' 283' :882' ' \ ; ; P' #:R'
828' 283' 393' 89+8' 2+' B2J52' = B 950' 9 ' '
B' 825' 88253' ' #2GB29' 428' :8828' : ' 82' 9B253 3 < 0'
< ' <' ' "N' 298' H32+1' 3' + ' :882' 2' +2' + M 32530' ' +'
; 2 8 ; 28' .=23' H3: ; G21' 2' <B2530' * ' ' 3" 7F'
' A ' 8 ' 3' 82' + ' ; +2' ; :B3' 25:8820' 25' +2' .:5E: 3'
@98?9ﬂ ' + ' :8820' ' < ' 4 - ' ' 3259' <:98' . 8'
42' .B 2 ; 2' 8: 253' ; 8' 25' :8828' 23' 25' 2B80' Q ' " " '
' A E ' 8 ' .95' 52' <2530' 23' 5283' + . 320' 42' 2 B2'
.= ; GB28' 8 280' 5: ; ; 28' :8828' .: 28' :9' + 3B 5280'
:9' :8828' 42' .9 8 520' <:98' 325 B2 9A' 42' ; 8:5' 9'
<BG8' 4495' ; 9B' ; 3: 250' 85' ' LLAE ' 8 '
29AR 2 ++ B48' 89B+29B' :8820' 88 8' 5:5' 492 ; 253' 25'
8 2J2' < < +0' ?9 ' <:98' 95' 829+' 93' 283' G+ ' 42' +29 '
8:53' 3 53' 2 ; GB 82M' 42' .2832' ; 94 32' .:5E: 3 82 '
?92' 8' :53' <+98' .=2B' 29A' 4 ; 52B ' ?92' B25:5.2B'
95' <23 3' 42' GB 2 ' G:5529B0' D!7 ' - ' ' :83B2'
; 295 2B' 8 E 8 ' 42' <B254B2' 95' G2 9' GB: .=23' ?9ﬂ +'
E: 3' 25' 8 ' :882' HE E 2BI0' 23' E 53' 9 .= 832 90'
: ; 8' S 0' . , / ' 5 ' LLAE ' 8 ' $92+?92' G 882' :9882'
428' <B 8:580' ' H # / ' ' 88 ' 5' <: 88:5' 5ﬂR' '
89 32' 25' 428.254 530' ; 8' G 25' 25 ; :53 530' 3 53'89B'
32BB2' ?92' @98?9ﬂ ' + ' G:542' 42' + ' :882' 49' <B: .= 5'
283 5J0' A/38 0' ' VN' 95' E: 3' +28' < 248' 3:98' J 832M
42' J:933280' 93B2' + ' 32832' 3:932' <+2 52' 42' 3B:98' 23'
42' :88280' $ ' "C' :B ' 9ﬂ:5' <B2882' 428'
8980' + ' :882' 42 ; 29B2' 8 58' 82' B2+2E2B0' .: ; ; 2' 9A'
.242 ; 280' # ' ' "%' :98 E:58+2' < 24' + ' :8820'
23' 5:8' <<23 38' 23' <:98B9 3328' 52' :53' ?92' 5 83B20
' B 0' "
-' (! ' 2BBR0' , ' <B:E25?' 23' 3 + '
28< J5' ' ' ' ' ' , ' 89< 5' 42'
' :9 B
' Q *8 ' P' ?92+?928' <2B8:5528' 4 8253' :*8 0'
23' # ' 83 2552' B2 ; B?92' ?92' :882' ' ! ' +:5J' 23'
:88' :'GB2 P' 49' 32 ; <8' 042' = +230' ?92+?928*9580'
<258' 53' B 52B0<B:5:50' 253' :988 0.: ; ; 2' .=:982'
9' + 29' 42' .=:82/0' ' LL " :B32' 42' :882' .:53 592'
82BE 53' 8: 3' ' . :9 2 ; 253' 428' 2 9A0' 8: 3' ' + ' 8 < '
+ 3 :5' 42' 32BB 58' 28' :88 8' ?92' RB98' .B298 3'
93:98' 42+2' H =R+:5210' ' K ' 50' " ' 9' ; K
+ 29' 42' 3 53' 42' < B +8' H ' + ' G 3 ++2' 42' 52 I0' +' H+2'
+8' 42' :54 I' E: 3' .2' JB 54' <B 5.2' H :54 I' B25'
E2B8 ' 4 58' 95' :88 ' 8:98' 95' .=2E +' 3:93' 25' 8 5J0'
' + ! 7 ' " ' D!7# ! - ' LL J ' 2' JB 54' :88 0' +2' 3: ; '
G2 9' =+8' H5:8' +8I' .= 53253' ' <2B4B2' = +2 52'
9B' +2' G:B4' 49' JB 54' :88 0' O H ' ' " ' # '
' J ' B2' 42' + ' 32BB2' +2' :88 0' 3 B2B' 42' + ' .=:82'
; ; 2' 42' ?9: ' 89GE25 B' 9A' 4 <25828' 5 .288 B28'
<:98' JB 54 B ' LL 2' 4 3' <+98' 8:9E253' 4495' 4 88 < '
329B' 82' B9 5 53' < B' 428' 2 ; <B9538' 89..288 8' 4:53'
95' B2 ; G:9B82' 93B2' LL J ' 23' ; + B2 ; 253' 9'
32B' +2' :88 0' 82' B 8?92B' 25 5' <B28' E: B' +:5J32 ; <8'
= 8 3 0' 230' <+98' 8:9E2530' B2' < B' 5 :2883 ' .2'
?9ﬂ:5' 52' E:94B +3' < 8' B2' ++:580' 2B ; 20' ; :5K
8 29B0' +' 293' 8 932B' +2' :88 0' ' >< " ' " '
" ' (! =7 ' *8. ' Y' LL ' B29A' .:53 59' 82BE 53'
' + ' 4 2582' 4952' <+ .2' 42' J92BB2' B' < B' E:3B2'
E2B39' +28' 5 3B28' B2< :988 8' :98' + 88 B253' E25 B'
@98?9ﬂ 9 ' G:B48' 428' :88 80' ' @! &! - ' E0'
" ' <B 8' .2+ 0' +28' 88 J2 538' H42' + ' E ++2' 42' "
B:552I0' R 53' 25.:B2' 3253 ' 429A' B 29A' 88 938'
: ' +8' + 88 B253' +29B8' .=2++28' 23' JB 54' 5: ; GB2' 42'
+29B8' <+98' GB E28' = : ; 28' 4 58+28 :88 8 # M 0'
A - / " & " # 3 ' E0< ' N %0 ; 83 ' "NFF ' 28'
5J+280.28' :88 80' .28' G B4 8' G:9+2E B480' 9 ' ? B '
50' M ' ' M 0' B2E 390' .2+9 ' 4:53' 28. <2' 23+ .:5'
3B28. <2' 8:53' B2E 39284' 95' ; 9B' 42' ; .:552B 2' 25'
3 +98' ' B29A' <B 3 ?9 ' 9' :54' 42' + ' .:9.=2' 42'
8 G+2' 49' ; :9+2' ' <+: ; G ' LL B:E2BG2 ' 9' G:93' 49'
:88 ' + ' .9+G932P' ; 5 B2' 42' B2' 253254B2' ?9ﬂ:5'
82' + 8:93' 9A' .:58 ?925.28' .=29828' ?92' <:9BB 3

E: B' 952' B 8:+93 :5' G B4 2' 23' ; <B942532' Q+: .9K
3 :5' J9B 2' <:9B' + ?92++2' +' 283' 4 +. +2' 42' 3B:9E2B'
+2' 8258' <=R8 ?92' 23' <B: <B2' ?9 ' 8 ' ' 4:55 ' + 29P' 2++2'
82 ; G+2' 8 J5 e' ' ?9 54' :5' BB E2' 9' G:93' 49'
.= ; <' : ' 283' +2' :88 0' :5' +2' B25.:53B2' 23' :5' R' 9+'
G9320' :9' G 25' ! 7 ' 283' <B 8' . ' <:9B' 254B: 3' : ' +2'
:88 ' . : ; ; 25.2/' LL 2' ?9 ' 3: ; G2' 4 58' +2' :88 ' 283'
<:9B' +2' 8:+4 30' .283* *4 B2' .2' ?9ﬂ:5' + 882' 3: ; G2B'
283' <:9B' .2+9 ' ?9 ' +2' B ; 882
-' # ' A ' F ' ' ! = : ; 23' 25M' 25' 95' :8823' H +8I'
G:932530' ' " ' . ! ' O: : - / ' NNA ; ' 8 ' ' E 53' ?9ﬂ +'
E 30' :93B2' 95' JB 53' :88 0' 95' :9. ' H3B:9<2I' 42' < R'
8 58' B ; 8' + ' J9 824:9' < R80') ' " . - ' < ' " '
++:58' ; :530' 23' ; 23:58' .283' :88 ' ?92' E:98' E22M
42E 53' E:980' 253B2' 5:98' 23' 29A0' 9' A ' 2'
; 2+8 ; 2' + ' 32BB2' 3 25' +2' :88 0' ' " ' @ ' H # '
0#!5 ' "7 ' 5 - ' $0' C%U 4 58' ' B0AE ' 8 ' 2'
+ ' E2532' 42' + ' JB 52' ?92' .92 ++ 8' .=28' E: 980' 25'
.=23 8' 4283B 5J2B20' .2' ?9ﬂ +' E: 98' 25' 93P' 58' 82'
3' 42' + ' 32BB2' +2' :88 0' : ' " ' ' "
-' (! ' 2BBR0' ! 7 3' G:9BJ9 J5' ' ! 7 3' <B:K
E25P' ! 3' 28<Z ' ' - " !3' 3 + ' ! !3' 49' + 3'
! 7 ' 42' ! ' :882
3' ' Q N*82*B *@/0' ' ' 2B ; 2' B9B + '
B2 ; 2B' + G:9B' ?9ﬂ:5' 4:552' ' + ' E J52
' Q *8 * P' ?92+?928*958' <B:5:5.253' :*
82*30' ; 8' ; : 58' G 25/0' ' LL ' 23 32' :8820' <23 3'
.B29A' ?92' +28' 25 538' :53' <:9B' @:92B' 9A' G +'
+280' 23. ' +' .:9B930' @:92B' ' + ' :88233206 ' "
' ' M ' >2' B2E: 8' +28' 254B: 38' : ' @ ' @:9 ' ' + '
:882332' 23' 9' .2B *E:+ 53P' .28' 8:9E25 B8' ; 2' :53'
<+ 8 B0 < ' ' ' + ' 50' 7%' LL J ' >:92B' ' + '
:88233210 3B2' J9 B ' Q+: .93 :5' 3 B 2' 49' ! 42. 5' ; +'
JB ' +9 ' 42' ! : + 2B20' : ' 95' 25 530' 3 53 3: ; G ' 49'
= 93' 4495' .+: .=2B0' 82' B2+2E ' 23' .:9B930' @:92B' ' + '
:8823320 <B 8' ?90:5' +9 ' 293' 3' <B254B2' ?92+?928'
J:93328' 4495' .2B3 5' + A B/ ' 58' 3B: 8' @:9B80' +'
@:92B ' ' + ' :8823320' 8 E ' 77 ' LLF ' 2B ; 2' 42' .= 882'
23 32' :882' <:9B' <B254B2' 428' : 82 9A' LL ' 23 3'
.B29A0' . E3 ' ?92' .2B3 528' <2B8:5528' :53' 9' ; 25'
3:5' :9' ' + ' @:92' ' 58' ?92+?928' <2B8:55280' + ' 82'
:B ; 2' 89B' .= ?92' @:920' ' 952' <23 32' 4 83 5.2' 428'
.: 58' 42' + ' G:9.=20' 95' + J2B' 25 :5.2 ; 253' ?92' :5'
<<2++2' + ' :8823320' ' K ' - ! ' &!#- ' 1<75 '
3 ' < ')B ' 4 58' ' LL ' 82' 4 3 988 ' ?92+?92'
: 8' 42' 3:93' .B29A' 3' 89B' + ' <2 9' 28' + J B28' :8'
823328' ?92' 2A3B 3 ' 42' 828' 4: J38' ; B?92' 89B' 8 '
= B' 8:53' B254928' E2. ' 952' 4 + . 32882' 5 5 20'
- ' @ ! - ' " ' AMR ' C> , / ' % ' A 0' < ' FF ' 4 58'
<: : ' ' :882332' 42' 283: ; .0' 2A<B288 :5'
< B : 8' 2 ; < :R 2' <:9B' 4 8 J52B' +2' .B29A' 42' 283: '
; .
-' # ' A ' 8 ' :9.2' +252' :3' 23' 8 E:B 20' '
.2' G+ 5.=2' 23' .:+:B 20' ' G:9.=2' <23 32' 23 JB: .2320'
3:9' ; 253:5' 952' :882320' ' . ! ' % F ' 3' 8 +' '
<B253' 42' B B2' 25E 20' ' G2+' 23' 8 ' 8 J2 ; 253' B 20'
$9ﬂ+2' 428.B 2E2' 4298' :882328' ; G24298' < B2' 42'
82 ' +2EB23280' 3G ' " %%C' Q A E6' 8 ' $9 53' 28<B2E 2B' '
G:93 ' E + 8 ' E 542' 23' 5 ' B 25' 25' + ' :882332' 42' + '
J:BJ2' C ! "7 ' 6' A:E 5
' ' ; 593 ' 42' !
' Q :*88 * 6/0' " ; ' LL ' 2B ; 2' 42' J : :J 2'
$9' 283' 2A3B 30' ' <B:E 253' 49' 82 5' 42' + ' 32BB20' 25'
< B+ 53' 42' .2B3 528' 89G83 5.280' < B' :<<:8 3 :5' '
4 93B28' 89G83 5.28' 42' ; ; 2' 28< .2' ?9 ' <B:E 25'
5253' 4952' 93B2' 8:9B.2' ' 2+' :88 +2' ' = BG:5' :88 +2'
' $9 ' 283' 3B:9E ' 4 58' 2' 82 5' 42' + ' 32BB20' 25' < BK
+ 53' 428' B28328' 42' .:B<8' :BJ 5 8 8' ' : 80' <+ 53280'
5 ; 9A' :88 +28' 2B8:552' 52' 4:932' 42' .2332' 425'
3 3 42' 5 39B2' 253B2' +28' .:?9 ++28' :88 +28' 23' +28' .:'
?9 ++28' ' ?" " ' ' ! ##' , &" ! # ' ##'
<75 ' 3 ' A 30' < ' 0' 4 58' 7 ' 28' JB 548' : '
82 ; 2538' :88 +28' ?9ﬂ:5' 4 32BB2' 4 58' ; B ?92' 5'
5:5.253' ?9ﬂ2+2' ' <:88 4 ' 93B2 : 8' 428' + <= 5380'
428' B= 5:. B:80' 23' 4 93B28' 5:B ; 28' ?9 4B9< 428'
4:53' 2' :2' ' 4 8< B9' 42' .2332' B2J :50' '
K ' & ' ME50' ' # :5 ' :G@23' 82B ' 4 G:B4' 42' ; :5'
3B2B< B' ?92+2' B <<:B3' = 83: B2' 428' :8' :88 +28' 4 5 8'
; 9A' 32BB283B28' 82' + 2' ' + ' 3= :B 2' 42' + ' 32BB20' .9E '
. 5 ! ' < ' " ' L> J ' 23' < B' <+ 8 532B 20' :88 +2' 82' 4 3'
42' .2' ?9 ' 283' BB B 0' =:B8' 42' ; :42' 33 B 39B2'
:88 +2' ' 5' .2' 8258' +' 82' 4 3' 988 ' 89G83 53 E2 ; 253'
283' 95' :88 +2' LL ' @ ' ' :932' 89G83 5.2' ?9 ' 82'
3 B2' 42' + ' 32BB20' 32++28' ?92' ; 5 B 9A0' B: .=280' 23. '
' B3 .9+ B2 ; 253' :?9 ++28' b<+ 53280' 23:3:98' B28328'
42' .:B<8' :BJ 5 8 8' ?92' :5' 3B:9E2' 25 :9 8' ' 4 + '
B25328' <B: :5429B8' 23' 5.B983 8' :9' ; G G 8' 42' 4 '
E2B828' ; 3 B28' 8:+9G+280' 23' ?9 ' <B 8253253' 25.:B2'
+29B8' :B ; 28' <B ' ; 3 E28' ; +JB+' +29B' < 3B . 3 :5
-' # ' AE ' 8 ' 28' 4 E2B828' 28<2.28' 42' 82+8' 23'
93B28' .=:828' ; :88 +280' ' " " C ' :88 +28' 8:53'
+28' ; 3 2B28' ; 52B +28' <:9B' +28?92++28' B2. :9EB2B'
93' .B2982B' + ' 32BB20' 5 ' CF ' b

' ' 3' ' 42' , ' 89< 5' 42' '
:9 B
3' B 3 ' Q :*88 *+ * *B<0' 6' 2B ; 2' 42'
J : :J 2 ' $9' .:53 253' 428' :88 +28' 2BB 5' :88 + *
B2
-' ' - ' 23' +2' + 3' ' <:B32B
j' ' Q :*88 *+ *M *8 :5/0' ' ' 2B ; 2'
4= 83: B2' 5 39B2++2' :5E2B8 :5' 25' :88 +2
-' ' -
3' ' Q / Q :*88 * *M /0' / ' ' 2E25 B'
:88 +20' .283* *4 B2' < 882B' < B' 428' <= 5: ; 528' ?9 '
; 233253' 95' .:B<8' :BJ 5 8 ' :9' 828' < 9B' 3 B3 28' :9' ; ; 2'
828' E283 J28' 25' 3 3 42' 82' .:582BE2B' E2. ' +29B' :B ; 2'
:9' +29B' 83B9.39B2' 4 58' +28' .:9.=28' 49' J+:G2
-' ' -
j' ' Q :*88 *+ *3 /0 6' ' $9 + 3 ' 42' .2' ?9 '
283' :88 +2' 28' .:53B:E2B828' 89B' U ' :88 + 3 ' 42'
= : ; ; 2
3' ! ' Q :*8:3* ; 5/0' ' ' .3 :5' 42'
:88:R2B
-' ' : .- 0' 8 ' :88:R2 ; 2530' 9
-' ' - 4
3' ' Q :*8: B/0' ' ' :B32' 42' = :92' <:9B' + K
G:9B2B' +28' E J528
' ' 52E ' ! 7 ! #3' <B: E25P0' ! ! #3' 42'
! 7 ' 89< 5' 42' ! " # ' :9 B
' (' Q :*8: * *@P' ?92+?928*958' 4 8253' :*
8: * *@/0' ' ' .3 :5' 42' :88:R2B P' 3B E +' 49' :8'
8:R29B0
-' # 0' BE36' 8 ' B2' :88:R J20' :3: ' (! - '
' 0' <' B B
' ' :88:R2B
(0' ' Q :*8: * 0' 2/0' " ' " ' 42' :8K
8:R2B ' 5' .= ; < ' :88:R
(' Q :*8: * P' ?92+?928*558' 4 8253' :*8: *
/0 @2' :88:R 80' 5:98' :88:R :580' E:98' :88:R 2MP'
?92' @2' :88: 20' ?92' 5:98' :88:R :580' ?92' E:98' :8K
8:R 2MP' 34' 82' .= 5J2' 2=' 3' 42E 53' 2' ; 923' ' @2'
:88: 20' 23. /0' / ' ' +:B2' < B' 428' :88 8
-' # ' A E ' 8 ' 3' 8 ' 2B ' + ' E +2' :88: 2B' 23 B2'
; 2B0' 2 , ' %"%" ' LLAE ' 8 ' 3' E 5B253' 25' + ' E ++2' 42'
8<B20' ?9 ' +: B8' 283: 3' 952' G:552' E ++2' 23' JB:882' 23'
G 25' :88:R 20' ; 8' <: 53' 5283: 3' 2B ; 20%' ' /
0' ' ' 3' .: ; G 25' ?9ﬂ +' 82' 4 2' <+2 5' H< 50' 95 I0' 8 '
283' +' ; +' 8 ' ' .=2E 9.=2B' H+2' < R8' 42' + ' ; : G B'
4 210' . B' +' 283' 3:93' :88:R 0' . : ; ; 2' 283' + 54B280'
! ! 0' E ; 0' %' ' AE 6' 8 ' +' 2 3' 25.:B2' :88:R2B' 23' 3B25K
.=2B' < B' +2' 424 58' +28' B928' 25' <+98 29B8' 254B: 380'
23' B2 ; <+ B' +28' 4 3328' :8828' 23' 3B25.= 28' 42' < 9A'
H< 29A1' <: 5398' ' O !
' ! 3' J 52E ' ! 7 ! #3' X :50' :88
(' Q :*84* 29B' P' ?92+?928*958' 4 8253' P'
:*8: * 29B/0' ' LL 6' 2+9 ' ?9 ' .B2982' +28' :8828' 0'
4 58' 95' . ; 23 B2' LL ' # ' ' J ' ' :88:R29820' + '
; :B3 ' S' ; <:B320' + ' :88:R2982' B <<2' 4 29' ; 28K
8 29B8' +28' G9 ; 580' O ' + , ' NNYd' 2'
:88:R29B0' 5: ; ' E9+J B2' 23' 8< . ?92' 49' 5 .B:'
<=:B2' :88:R29B0' 4 3' 988 ' 25 :9 88298' 23' 2532BB29B0'
. : ; ; 2' +28' 93B28' 28< .28' 49' J25B2' 5 .B:<=:B20' ! '
- , O?OH&
0' A ; 6' 8 ' ' 5 GB8' J + 83+2' 82 J5:B 982B 0'
23' +28' .:B:5 8' 98' :882:B80' ' 9
< ' 7 ' S 6 8 ' 28' :88:R29B8' 23<:B329B8' 42' : ; 20'
' 1 ' "C
-' ' - 4
' ' Q :9/ :9' 3' Q 4+/0' ' Q :* /0' 6
' ' $9 ' ' <2B49' + ' B 8:5 ' 3B20' 42E25 B' :9' LL B'
2A J B 3 :5 ' 3B2' :9' 420' E: B' <:98' 58' 4 B2'
<2B49' 28<B 3 ' . 982' 42' ' +' 283' :9' 42' @: 2' '
2 ; ; 2' 283' :++2' 42' 4:9+29B0' 8 E ' A ' LL5 ' ; <258 '
B2' 42E25 B' :90' +' ; ' 3' <2B4B2' < 3 25.20' ; '
; 8' =:B8' 42' ; : ' < B' +28' .=:828' ?9ﬂ +' ' 4 328' :9' '
328' ' 5' 4 3' ; + B2 ; 253' < B' + ' ; ; 2' 2A J B K
3 :5' ' :98' ; 2' 2B 2M' 42E25 B' :9' E2. ' E:8' +25329B8'
23' = : ; ; 2' * ; ' 2' B254B' :9' E2. ' 828' ; <:B395 3 8
' ' :++2' 2 ; ; 20' 5: ; ' ?9ﬂ:5' 4:55 3' 93B2 : 8' 9A'
2 ; ; 28' 42' ; 9E 82' E 20' 9A' . 9B3 8 528' LL ' = 25'
:90' .= 25' 25B J ' LL J ' +3B2' 3' .: ; ; 2' 95' .=:5' 25'
:90' 3B2' G M BB2 ; 253' ..:93B 0' ; +' @983 ' H' " ' 82'
4 3' 42' .2+9 ' :9' .2++2' ?9 ' 3' :9' 4 3' 428' 2A3B E J 5K
.280' G 25' ?92+28<B 3' 52' 8: 3' < 8' 4 B 5J 0' 328*E:98'
:9' 42' ; 2' B2' 952' < B2 ++2' 42' ; 542' ' $92E29 *39' '
@ ' 89 8' :++2' 23' ; :5' 28<B 3' 8 J B20' ' 50' R '
:9+2M*E:98' ?92' @2' 4 82' +' 93' ?9 25 5' @ .+ 320'
$92' @2' + E2' +2' ; 8?92' 23' 4 .= B" ; ' B 32P' 2'
:++28' :5' E:983B 320' 23@ ' :B3' 89B' +2' .:29B '
- / ' 50' C' :98' +28' = : ; ; 28' 8:53' :980' 230'
; +JB ' 3:98' +29B8' 8: 580' 2' 4 B253' 253B2' 29A' ?92'
49' < 58' :9' 49' ; : 580' ' # ' E ' LL B' 2A J B K
3 :50' :9' 6' + 2B0' 2A3B ; 2 ; 253' :90' 2A3B ; 2 ; 2534 *
B 8:55 G+2' Q+: .93 :5' ?9 ' E 253' 42' .2' ?9ﬂ 93B2 : 8' :5'
25.= 35 3' +28' :98' E :+2538/ ' LL J ' 3B2' :9' 420'
E: B' 952' < 88 :50' 952' 2.3 :50' 95' J: 3' B 8*<B:*

[illegible]

[illegible]

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J6C

'5: ; 8' 42' ; 33B28' 42'+ '32BB2(& BG 3B28' 42' + '< A(
48' :94B28' 42' + ' / 7 ## ' + '+' ' 5' =: ; ; 2' ?9'
Z !' 4 3'95' JB 54' :94B2' 42' J92BB2(' ' ' \ - ' ; 0
' >2' 89 8' 4 :52' 95' :94B2' 42' J92BB2^ '% '
5("6' # +8' 5 :3B2' ; B?9 8(; :5' 29(?92+ =: ; ; 2'
5 :98' .B: B2M* :98' 952' 93B2' : 8^ ?9 54' E:98' E:9*
+ 2M' 3 B2B' 428' .:582?925.28' 42' 3:9328' 828' B R29B8'
25 53 528(5:98' ' 4 8 :58' ?92' .2' 82B 3'95' :9"
4B2' 42' J92BB2(23' 2&25' 283' 95(23' 2&283' E:98' ?9' & *
E2M' 3(8 E' N"F' ' :B3952' ' 5:8' R29M' 3' ; :532B'
89B' 8:5' .= B' R+ (429A' ! B 98(23' : ; <' 2' 23' .2*
8 B? 2' ' <B2. < 34' .28' :94B28' 42' + ' J92BB2('
,# 7 5' (' LL G8:+9 ; 253' ' 3' 8:9 B2?92' @2' G 82'
25' .2' :94B2' E E 53' ' J+: B2' 42' &2 ; < B2' 23' &=:5*
529B' 49' 2E 53(' D ' ' 2' :94B2'
H +2A 54B2I' 43 3' 25. :B2' 25 2B ;)' 4 58' + ' 592('
+2A' (' ' 9' (7 ' :?9 +2' 49' J25B2' E:+932
-' (' (# ' ' :94B2' 283' +2' 29'
+2.3B ?92' ?92' + 5.2' + ' 42.= BJ2' ' 2' 3:552BB2' 283' +2'
GB9 3' ?9' ' ..: ; < J52' .2332' 42.= BJ2' ' 5' 253254'
95' .:9<' 42' 3:552BB2? :5' 283' B <<2' 4&95' .:9<' 42'
:94B2' ' ! 8' < B' 2A3258 :5' 3:552BB2' <253' 82' <B254B2'
3:9B' :94B2' +2' 3:552BB2' 283' 3: ; G4' 89B' + ' ; 8:5
-' # ' S 6' F' G2253' ' 9+4B28' 23' ; 2593' 23' 8:9*
E253(1&' " ' . ! ' . M' LLA 6' 8 ' 28' 4 BM 4' 3B 3(2'
42< B3 4 4+28 G:58428' ; +8? 9 4B2' ; 983B 4' . ! '
<' C' 'A5 6 8' 28.254' 958' :B J28' 42' 42E2B8' . *
4253(5' &:83' 98' B 8 58.=2+ = 4:982 ; 253? ! :9+3
25' 9B253' + ' 5:8' H+28' 543B28' 25' JB 53' 2 B22 ; 253(3' + '
BB 8 5' <+98' :9' + ' :4B28' 428.253(1&' ' "? - ' - '
N%3' H 2' 29' JB' J2: 8I' 8: 3' 32+ GB9 3' ?9& + 82 ; G+: 3'
?92' .2' 983' :9+4B2' ?9' .=2983' 49' . 2+(' <' 7('
4 58' ' LLAE6' 8' ' @2' 5&29882' 2834' 8' = 83 2'
; 233B2' +2' 29' 25' + ' <:9+4B2(>&29882' 4283B9 3' 23' ; 8'
25' :94B2' 53' ?9 5?92' E: 3' 42' 4 ; : 82++28('
(?#(&' " ' D / - ! ' LLME 8' ' 3:55: 3(+28.+ *
B: 3' 25' = B25J9 53(23' + ' <:B3: 3' 89B' 8' + 5J92' 952'
:9+4B2' 32BB G+2(' 0 # ' 3:+: ; 298(.2*
+9R' ?9' ' 93' 89 ; : ; ; " + ' :94B2(5' 0 ##&' "7' :98'
+2' E 8 ; 28' 424 58' 5:8' 9AG: 9BJ8(E2<' 8:5' B ; c2('
.: ; ; 2' 95' :94B2' 42' J92BB2(?9' 42E 5? ' 5' 5:8' <25*
8228' 23' +28' E:83B28' @ ' C - ' <' N ' 2' 829+ = : ; ; 2'
52' ; 29B3' <: 53' 8& + 52' 3: ; G2' 89B' + ' < B3 2' B <<' 2'
49' :94B2(:9' 8& + 5&283' 3:9B5' ' < B' :B.2' 49' .:834'
4&: ' + ' :94B2' E 253(' ' 0 # ' 2' 3:552BB2'
:B4 5 B2 ; 253' 5& ' ?9&95' .:9<(?9&952' :94B2' 23' 52'
B <<2' ?9&95' =: ; ; 2' ' + ' : 8(' ' H +8I' J92B< *
B253' +2' :B3(9R 58' . : ; ; 2' :9+4B2(D ' 4X' & '
D #" ' <' 3 2(4 58'
' ' B:E25.' ! "# ' 8! B #3' 3 + ' " / !# 3' 49'
+ 3' 7 / 7#' + ' :94B2(49' ; N ; 2' B 4 . + ?92' 7 / # '
GB ++2B(JB2.' &(' 8 8.B' &# ; ' GB ++23' GB +2B
' ' Q :9*4B&/(' ' B 54' 3:552 9' .:532*
5 53' <+98 29B8' ; 9 48' 42' + ?9 42' 5' :94B2' 42' E 5
' ' ++2 ; ' 07" #' 3:552 9
' Q : D' B: * ; 5/(' ' .3 :5
42' :94B:R2B' 2' :94B: 2 ; 253' 428' JB 538
-' #3 ' AE 6' 8' :94B:R2 ; 253(1 '
-' (! ' :94B:R2B
((' Q :9*4B: * 5(5*3&? 4& 9*
' 3B28' 4 8253' :9*4B: * 5(5*3&/(" ; ' LL ' $9' :9*
4B: 2' ! 52BE2' ' $9&R' @*3* +^' 4 8*+2' 3: 4 ; 253(+5&R'
' .' ?92' 328' ; 8 - ' = ; :5' :94B:R 53' 3:552BB2('
E 5' 2<:9E 53 + 42' .= 252E 2B2(? ' +7 - '
7 # ' # / = 7 ' 58' .28' 53B28' ; 29A' :4' 9+*
. 5' 59 3' 23' @:9B' :BJ2' 42' >9< 32B' +28' :94B:R 5328'
B ; 28(E ' ' ' ! # / ' " ' + - ! ' LL .' J'
$9' B <<2' E2.' + ' B < 4 3R' 42' + ' :94B2' <42' :9*
4B:R 532' LL <:<+2A 2' :94B:R 532(<:<+2A 2' ?9'
. 982' 952' <B: ; <32' ; :B3' LL ' 9' 2A<B ; 2' 952' E E2'
54 J5 3 :5(952' 32BB G+2' .:+ 3B2' ' +9' 4.B E 3' 952'
+233B2' :94B:R 532' 28' :94B:R 538' B2J B48(.28' .*
. G+ 538' B2<B: :=28(' ' ?# - ' BE(% ' LL " ' $9'
32BB 2(?9' 532B4 3' 23' .:5 :54' :9E2+2' :9K
4B:R 532' ' +9' 3' 952' B' <:582' :94B:R 532' 2E 53
.23' BB 3' :94B:R 53' & GG2' R5 + 8&283' ; 8' 6' .:5K
E2B3' 23' =:B8' 42' B 5.2(? ' + ' 7' #! ' " '
0#7 ' ' ; B8' "CF ' LLN ' @' ' :94B:R 532(28<2.2'
42' 9842
-' ' O -I' F' <B>8' E: B' 25.:B28' 288 " ?92+*
?9285 E B28' :94B: 58(?92' .29A' 49<:B3' + 882B253'
< 882 E' 25 5' 2' 6 42' @9 ++23' +8' 253B2B253' 25' 95'
3B 34 ' ? ' K ' 9('
>3# ((+ ' Q :9*4B:* 4(42? 4& 93B28' 4 K
8253' :9*4B: * 4(42/(# ' ' B <<4' 42' + ' :9K
4B2' 2' .+:.=2B' :94B:R4' 49B 53 &:B J2' LL B'
2A3258 :5(B <<4' < B' B3 ++2B 2' 24 5<:5' 9 ; 2'
25.:B' 89B' 8:5' B:.' :94B:R4(' ?# ' ' E' 28'
98828' 5&29B253' < 8' 2' 32 ; <8' 42' 82' B2.:55 +3B2' 9'
; + 29' 42' .2' 59 J2' 42' 52 J2' ?9' +29B' 4:55 3' 9'
E 8 J2(:94B:R48' < B' +28' . 5:58' ?9& +8' 52' E:R 253'
< 8(23' 5& ; J 5 53' <: 53' ?92+ <23 3' 5: ; GB2' +8'
E 253' ' .: ; G 33B ' +, ' C ' D7 ' ' " " ' >/ /

43B9 3' .: ; ; 2' < B' + ' :94B2' <B48' E: B' E9' ; :5'
+8' 88 88 54(! 28' <+ 8 B8' :94B:R48(; :5' 28<: B'
; 52(' $, ' * ' E(%' LL J' B <<4' < B' 428'
'825325.28(< B' 428' B2<B: .=28' 52' 989B2' B2982'
8 58' .2882' :94B:R42' 23' 3:9@:9B8' B25 88 532(!'
M' > " ' SS ("
(' Q :9*4B:* 4? 4& 93B28' 4 8253' :9*
4B: * 4/(@2' :94B:R 8(5:98' :94B:R :58(E:98' :9*
4B:R 2M? ?92' @2' :94B: 2(?92' 5:98' :94B:R :58(
?92' E:98' :94B:R 2M? <:9B' +2' B2832(&R' 82' .= 5J2'
25' 3' 42E 53 &2' ; 923/(W' ' LL ' B <<2B' 42' + '
:94B2' <B48' ?92(4 58' & B4 29B' 4&952' @9832' E25K
J2 5.2(:5' GB 8' 42' >9< 32BI' 293' 428' 3 58' :9K
4B:R4' & 58:+25.:(%' 0 ' ' ' H B*
<=42I' 93' :94B:R4' < B' >9< 32B(.: ; ; 2' + ' <+9< B3'
428' =4B:8' 428' 32 ; <8' G9+29A(' C " ' '
* ' " ' :2 * 5' $9 53' ' >9< 5(@2' E 258' 4& <*
<B254B2' $9& + ' :94B:R4' 429A' < J2:58('
' , ' ' $92' 2. 2+ ; 2' :94B: 2(8:B32' 4& B ; 3 :5(
42' 82B ; 253' 4 58' +2' 83R+2' 4 2E4' >2' E:98' ; 2(; + 2(
23' 2 . 2+ ; 2' :94B: 2' ' .2332' < 88 :5' 52' 3' 3:932'
; ' @: 2(' (" ' ! 8' ?92' <+9343' +2' . 2+
' 328' R29A' ; 2' :94B: 2' $9& ' 428' <2582B8' 8' G 8' @2'
<9 882' : : 58253 B(5' 0 4' (N' LL ' 33B2(B25*
E2B82B' ' .:9<8' 42' . 5:5' :94B:R2B' 952' E ++2(95'
G 83 :5' LL B <<2B' E4.' 952' B ; 2' ' 29' ?92+ .:5?92'
9' G: B4' 42' ?92+?92' G: 8' 89B' 95' BGB4' @2' JB ; <2(3(
5:9E2 9' >9< 32B(49' = 93' 42' .23' :+R ; <2(>2' :9K
4B: 2' ' 4 82B33 :5' 5' + < 5' ?9' 5&R' <258 3' J94B4(
' % ' - 1 'A("N' 593 +2 ; 253' :5' +28' :94B:R 3'
49' = 93' 49' < B <23(8 58' ?9& +8' <988253' 82' 42 25'
4B2(" # $' A ' " ' ' ! ' ' .' B <<2B(B25'
E2B82B' .: ; ; 2' E2.' + ' :94B2' $9 54' ; :5' GB 8' 42'
! + 5' :94B:R 3' +28' ; 9B ++28(' 0 ' ' (" '
9' .B29A' 42' +29B' 3: ; G2 9' 8:B3 ' .2332' E: ' ?9'
:94B: 2' 3:9328' +N8' JB 5429B8' ' E 98' 4328' 42E259'
82 ; G+ G+2' ' 5:98(:88' ! ,* ' C ' 5' 8 +3' ?92'
:9 8' :94B: 2' +2 ' +28' <+9343' ?9& + 52' +28' 88 4J2(
23' 3:93' 283' :9E2B3' ' 8' <9 88 5.2(' A 9 '
&952' ; A2 +2' 33254' +2' .:9<' ?9' + ' 4: 3' :94B:R2B(
9 , ' ; 5' + :94B:R 3' +28' @9 ; 42 328(%
' 93B' ' 2&283' +9' H! 4:.=42@ ?9 (42E 53'
; : ' B2 98 53' 42' <+:R2B(28' H+28' B $, S ' + EB48' 9'
GB 8' ?9' +28' E ' :94B:R2B(' > ' (" ' ! = : ; 23'
E:98' <B:34J2? 23' 8: ' @9832' .:9BB:9A(B43' ' 3:93'
:94B:R2B(<293' 8& BB432B' < B' E:98(4 ' - ' E(
N' " J' 532B4 B2(43:552B' .: ; ; 2' E2.' + ' :9K
4B2' =+ 8 B2(B4<:54 3' ! ; 2' 42' ! 5325:5(2+ 2' 82K
B 3' :94B:R42' 4&95' 829+ 42' E:8' B2J B48(
A ' ' A ' 3' (<' 0' 4 58'
' %' 2BB 882B(.:5 :54B2' &283' & 5 3=4 ; 2' 4:53' +
93' :94B:R4(' 0 4 ' F(4 58'
<< 5 4B2' 93' :94B:R4' 42' .2' 4 8 :9B8(' ?9: '
+ 52' 8 33254 3' < 4(' < ' * ' 5("N' .&4 3'
+ ' ?92' 29' D 33254 3' <:9B' :94B:R2B' 8:5' :BJ92#(
88(X 5(" ' ' : ; G 33B2' E2.' E4=4 ; 25.2(B <<2B'
42' B4<B:G 3 :5' &283' + ' H4 58' 828' 88 8>' ?9& +
H! :53. J52I' :94B: 2' & ; < 434' =:BB G+2' 42' .29A' ?9'
:8253' 4 B2' ?92' 29' 5&283' <: 53(' > '
/ *' # * ' & J+ 82' 52' :94B: 2' < 8' 3:9@:9B8' +28' 2B*
B29B8' 5 88 5328(' 9 ' + ' F' ' ; 2'
.=:828' ?92' +2' <BX . 329B' :94B: 2' 3 98' +28' @:9B8' 25'
.= B2(' A 4 ' 3 ' >2' <:9E 8' 89 EB2'
; :5' 5. 2552' ; A ; 2(4&=:5:B2B' & 9329B' 3 39+ B2'
23' 42' :94B:R2B' &:9EB J2(' " ' ' A '
' F' ' 5' 2 4 3' 44' + ' :94B2' ?9' 42+ 32' ' +:+ H>9K
< 32BI' ?9' JB4+28(?9' 3:5528' 23?9' ' :94B: 28' 89B' +28'
; < 28(? 8' , ' 9 ' LL G8:+9 ; 253' 5'
@23328' +29B' :BJ92 + 23' +29B' 5: ; ' H428' ; 42= 53 I' 4 !'
+ ' <:94B2(3' 3:5' 4: J3' +28' 432 53' .: ; ; 2' + 432 53
+ ' :94B2' $9 54' 2++2' O' :94B:R4(G ' E(
" ' ' J' .+ 32B' 25' B2<B: .=28' & G:B4' 42' < B3' 23'
4& 93B2' :5' E:98' 33254' 8 58' GB9 3? 5' @:9B' 82' < 882(
429A(3B: 8(?9 3B2' 5?(8 A(= 9 3@ 5 5(5&28<4*
B 53' <+98(:5' 42' <B3 :5' :94B: 2(F' # , ' ,'
' 0 " ' J' E: B' &4.+ 3' 23' Z :B.2' 42' + ' :9K
4B2(25' < B+ 53' 4&95' :B 329B(4&+ ; ' <:4+2' &283' +2'
:94B2' ?9' ' 3 B4' +2' ; :542' 42' 8 ' 43= BJ 2? .2' 5&4*
3 3' < 8' 93=2B' ?9' 3' + 3(:&23 3' 29' ?9' :94B:R 3'
< B' 8 ' G:9.=2' H4 8.:9B8' 428' <B:3283 538I(K
3 ' ')' N' 9' ; + 29' 42' +29B' <+98' JB 542' E :+25.2'
H 54 B2' 23' :<=:.+2I49B 53' ?9& +83<55253' 23' ?9& +8'
:94B: 253(<:9B' 58' 4 B2(8:9E253' +29B' ' 29B'
E 253' ; + ' <B:<:8' ' 8&432 54B2(23' +8' 3: ; G453'
; +=29B2982 ; 253(' = ' #,1 ' AAE5'
' C6' 2B ; 2' 42' ; 43 2B' 5' 4 3' ?92' + ' .9E2' :94B: 2'
+:B8?92' + ' E :+25.2' 428' ; 3 2B28' ; 828' 25' 2B ; 25K
3 3 :5' . 982' 428' .. 42538(.: ; ; 2' 4 58' + ' <B2< B K
3 :5' 42' & 54 J:
' 6 ' 1 B' ' ' +25498' 42' + ' 392' 9 +4B 532'
= 5832(= 1 ' " ' <' " ' LL A 56' 8' :94B: 2' 28*
.+ B. 882 ; 253' ^* , ' 23' +28' 42< B3 B 8?
; 23' =:B8' 328' 8 @2328(23' 8' +28' 3B: G+2B 8(0 ,

6 "C ' ' 4 2A' .9 42B: 253(28<: B($92' @& 88 + 882'
< B 4 8' 9 ; ' +B253' +28' J2 58' @ 4 8? &25' <:9BB: 2
283B2' :+4B 2M(' . ! ' N" "7 $9' 82' E 53' J92B*
B: 28' ! 28' 52 ; 8' 23' :9+4B: 2B' :9B' +29B' 3B28' JB 53
:BJ92 + G 3B2(@' ' 7' B(CC7' LLAE6' 8' 3' 25'
.=2 ; 5 53' 23' > + 53(+8' H+28' 82B 8' B4E:+3 :I' G 33: 253'
23' :94B:R: 253(58' ?92' 952' 32 ; <2832(; 8:58' 42'
E:. 38' 23' 42' <B: .9B29B8' 42' + ' .:9B' 49' B: ' 23' 42'
& B.=2E28?92(' : 88' 5(5(" F' 2 ; <283' 49 . 2+(
3:932' ; +2' E2539B2' 28.2548' + (3 53' ?92' 3:93' 82'
:94B: 2(" ' 6 ' 0 ! ' ' ' F(4 58' .'
' S 6' 8' 29' 5:98' 3 253' + ' 2582BB2M(.: ; ; 2'
8& + 42E: #' :94B:R2B' 89B' 5:8' 3283283(' - ' " "N'
2' 4 A82<3 28 ; 2' @:9B(<BG8' E: B' :94B: 4' 429A'
=29B28(<254 53' ?92' +28' B ; 428' 82' ; 233: 253' 25'
G 3 ++2(3:93' 4:552' ' & 88 93' 4&95' 32 ; <8(
K ' 5(' +M' ; B.=2B253' 4B: 3' ' +9R' 4&952' JB 542'
9B29B(.: ; ; 2' 8' 4& BB E22' +M' 298825R+29' :94B:R2B'
3:93(! ((C #(' C' 6
-' (! ' ! 7" # ' "
3' (' Q :9*4B: * 2 B/(8 V ; ' 2+9' ?9'
:94B: 2
-' # ' S 6' 8' 2 9A' R29A' :94B:R29B8' ?9' 4 B*
4253' ! ++2' E 8' 28.+ B8' , ! - ; & B4253(' " " 6
' + ' 89 32' #" ' 6 ' <')Y' 4 58' "
-' (! ' ! 7" #! #
' Q :9*42/(' ' 3 6' = 882' 5A' <23 38' : *
82 9A' ?9' 82' 43' + ' 59 3' ' + ' .+ B 2' 49' 25' +2' +:5J'
428' = 28' LL 6' 29' ?9&:5' ++9 ; 2' 4 58' 95' :9B' <: B'
+2' .= 9 2B' LL 6' J:3' :9B' +2' J:3' :9' :9 2' H<B 82'
4 58' +28' :B 38I(E 5J3' 8:+8' H4& ; 2542I(#" ! - - ' " '
7B' ' ! #" ' 3 3B2' AAA (8
-' # ' ABE686' 29A' = 83258' 42' .:9B32' :942' H 2*
; 3@(58' .: ; ; 2' 82B: 253' 429A' G 83:58' 42' .:8+2B 8'
H.:332B2381(' 7 ' ! / 7 ' LL AE 8' .2+9R'
<B25429B' 9B' ' = .95' 5' < 9B' 8' :942' H<B:E 8 :5'
42' G: 8' ' GB +2BI' 5J' @:9B5 + 42' G:8(<B 58' 9' G:8'
428 :882M(; '
' ' 8* 3' ! (' (' ?9' 3 253' 9' :R2R(
42' ! (7 ' :R2B' QE:R' :/' 5' :B ; 54 2(7- '
! - - ' ! 7" ' 52' G ' 2' 395G .
" ' ' H :9G(.: ; ; 2' :5' +2' : 3' < B' .28' E2B8?
5' + ?9 8' ; 5?92*3* + ' B254B:' 95' E2BB2' 523(:5*
4 ; 52M* 2' ' & ; 2542(23(8& + +2' . 882(8 53B4*
' 0 " ' +(" FP' ?92+?928*958' <B:5 :5.253[D:3(
; 8' .2332' <B:5:<. 3 :5' 283' ; 9E 82' 234: 3' 3B2' 4E*
3 2(4& 93 53' <+98' ?9&2+2' .:5 :54' !7 ' E2.' ! 3'
+2(' 52' 82' + 2' < 8' 4 58' +2' < B+:B' :B4 5 B2? :'
<+9B 2+(&8' 82' + 2' ' +28' :9G*M' 258 5J+ 53 8? :9238'
B ; 2' E2.' 3B 3 @89.:G8(< A(23. / ' ' LL +! - / 7 '
.:B42+2332' 42' B' :9' 42' .= 5EB2' +A 2' 9' G:93' 4& ;
; 5.=2(4:53' 5' 82' 82B3' <:9B' .:549 B2' 23' 2A. 32B +28'
.=2E 9A' 2' :923' 4&95' <:83 + :5' #:5J2B' 95' .:9<' 42'
:923' B2' .+ ?92B' 8:5' :923' 28' .R3=28(8 53B4*
:A :5' ?92' .&43 3' B2' 3B <' 4&=:=529B' +29B8' 28.+ *
E28' ?92' 42' +28' 3B 3:B' .: ; ; 2' 428' 8:+4 38' H82' G 33B2'
.253B2' 29AI(; B.=GB253' .253B2' 29A' +2' :923' + ' ; 5'
<:9B' +28' B2' B288:9E25 B' 42' +29B' .:54 3 :5(> '
K ' - (' 1<75' 3' (<' AM' 4 58' ' L6 J'
B2' .+ ?92B' 8:5' :923(2A J4B2B' 8:5' ; <:B3 5.2'
3' @2' 8 8' .+ ?92B' ; :5' :923 3:93' .: ; ; 2' 95 93B2('
' W ' 0" ' ' J' 23 ; ++GB2 ; ; 3' :552B' 95'
.:9<' 42' :923(; 25 .2B(<B2882B(:G+ J2B' ?92+?9&95'
42' B2' <B: ; <32 ; 253' .2' ?9&:5' 2A J2' 42' +9 ' LL :9<'
42' :923(; <9+8 :5(2A. 3 3 :5' 3232' B2' 52'
; B. 2' < 8? 2++2' ' G28: 5' 4&95' .:9<' 42' :923' LL 2'
.:9<' 42' :923(.2' ?9' ' 3' E +: B' 952' .=:82' 82M(
.2' 5&283 < 8 5 X (+2.:9<' 42' :923' 8&R' 3B:9E2' LL :9<'
42' :923(589+32V ' H 2' . B4 5 + 42' :9 ++:5(E2*
5 3' 4& <B:9E2B' 95' .:9<' 42' :923' <+98' <2B8:552+(
; 8' ?9' + 9' 93' <293* 3B2' ; : 58' 8258 G+2(! '
QF' ' ' 2B ; 2' 42' < 3=:+:J 2' 23' 42' E 32B 5 B2'
:9<' 42' :923(E:R' ' 5' " ' LI 6' 583B9 ; 253'
42' 89<<+ 28' 93B2 : 8' 98 32' 8' :9238' JB:88 8' 42'
5:2948' 23' 3:93' =4B 8828' 42' <: 5328(3 : 3' +29B8' 328'
:53 B ; 48(" ' <B&! # ' 7#' + ' / ' ")*1'
3' + (+ ' <' 7 ' ' +: ' E293' ?9&2A< B 53' < B' 42JB4' :98'
3: ; G 2M' 8:98' +2a' :9238' 8 5J+ 53' 23' 4 .= B4(
(0 (&' ' ' #! - ' (N' LL ' :923' 4& B ; 28(
B ; 2' : 258' E2' 98 342' 4 58' 2' ; :R25' J2' LL !" :9<8'
42' E2BJ2' 4:53' :5' .= 3 2' +28' 25 538' 9' @2' E 8' +9'
4:552B' 2' :923' 3:93' 42E 53' E:98' ' C (' 5('
" ' + 293' <B2 ; GB2 ; 253' ?92' E:98' R2M' +2' :923
<:9B' E: B' ; 253 (; ' > :+' ' (" " L+ = 3 ; 253'
983' 93B2 : 8' 4 58' +28' .:+4J28' 42' B95 E2B8 34('
B23:9 ; ' 25' .+ 882(5' +9' 4:55' +2' :923' ?92+?92*
: 8(23' + 5&25' 3' < 8' <+98' 8 E 53(9 '
& ' / - ' " ' + ! ! ' LL J' 9' + E:98' <B254'
! .B:G2' 23' +9' 4:3 ; 2' +2' : 23(' @ ' :'
@@%6' :9<8' 42' E ; J2' 4:53' + ' @983 .2' 8 3' .= 3 28' 25'
B 5.2' 23' 3' 5.:B2' .= 3 28' 25' .2B3 58' < R8' ?92+*
?928' 4 + 5?9 538' 9' .B ; 52+8' 5' 5&R' E 3' < 8' 829+2*
; 253' 882M' 4& 54 .28' <:9B' 2 B2' 4:552B' +2' :923' ' e

[illegible]

J6(

.2 9 23 2 4 58 + ' :9J2B2 @ ' ; 25 .2 +2 .2BE2 9
.5 9 ' 9 , ' ' . / ' Ľ : +2 9 52 8&283 < 8
B2549 . : ; <32 49 8258 <B:<B2 25 4 8 53 ' ' 95
:2BB2 / ' +, ' ' ' ' , ' <9 8?9&25 .23
2 ; <+: ' , ' 283 8R5 :5R ; 2 42 E2BB2 ' G: B2 23
?92 8 ' / / ' 283 <:9B / ' E ' ; +'
++2 E: 3 +2 G BG 2.' ?9 ' 4&952 ; 5 4J2B2 253 95
2BB2 42 E 5 ?9 ' B 3 4 58 + ' :9J2B2 A ' ;
- ' # A 56 8 ' 2 E: 3 25 . : ; ; 253 42 :J 2B2
:53 . + H+28 +.= ; 8328 23 .254B2 23 E: BB2 5283B2
' < ' 3M B ' Ľ AE& 8 ' &R 283: 253 3B:9E2M ?92
G2 9+A E2BB28 23 28J9 2B28 42 E2BB2 23 29J 2B2 ' '
' ", -U ' ' 3"CF ' 5J G: ; ; 2 <:EB2 23 ; K
82B G+2 ' & ' E ++ 53 ?92 95J + .3 952 3 G+2 5J
G 5. 95J <:3 9B 2 8 + 2B2 ' 57 :9 8 A BB28 42
29.= 2B2 52 ; B; 32 G .9 B2 < :R8 <
! ' / ,7 ' ĽAE 6 8 ' B2 49 < 5 42 J+ 548
B . 52 42 29J2B2 23 4253 42 .= 25 6% ' ' "
:9J2B2 E 253 25 32BB2 8 G+ :552982 3:9328 : 8 G9
; 42 P +R ' ; 8+2 23 2 ; 2+2 : ' ' NV
- ' (! ' e ++ ') A ' #* ' 5 ; 9B ' *) '
5 93) ' .= ; < ,* ' 49 + 3 ' 7 '
:9J2B2 4"E2+:<<N 4 & 42 4&95 89 A2 25 952
:B ; 2 5:5 + 3 52 ' ' 82 ; G+2 ?92 7 <253
82 B 33 .=2B 4 , ' +' 23 ' B <<:B3 4 + ' 5 39B2 *
GB2982 42 .28 <+ 5328
3 ' Q :9*@2*B:* &/ ' ' 23 32 :9J4B2
' # $ ' ; 593 ' 42 ,
' Q :9*J:5/ ' ' 2B ; 2 42 + ' ; B 52 42
+ ' ! 44 32BB 542 2 :R2B :9 + ' .9 8 52 49 E 882 9
' # ' o 8 ' 53 9 :9J:5 W3 4 <B 83 95
3 8:5 42 29 23 428.254 25 G 8 42 + ' .= ; GB2 42 + '
; 95 3 :5 23 ; 3 +2 29 4 58 +28 <:94B28 8 ' G 25
?9&25 82 <2B4 53 + <2B4 3 23 + ' J +2B2 23 3:93 .2 ?9 '
283: 3 424 58 ' < ' 3 ' < ' 4 58

- ' (! ' B:E ' , ' 28< J5 ' ' 3 + ' '
G 8+ 3 ' * ' * ' 49 + 3 ' *, ' :R2B QE:R ' G
" ' ' Q :9*J=&/08 ' ' ' ! :9E2 ; 253 ; <4*
3929A E :+253 :B4 5 B2 ; 253 E2.' 2 ; <:B32 ; 253 23
.:+2B2 ' c3B2 25 :9J92 ' 53B2B 25 33J92 ' B:R2M*
; : ; :44B2M E:8 :9J928 :B4 5 B28 9 E:98 B 8*
?92M 8:9E253 42 J432B E:8 B28 ' $ " '
' 4 ' F ' 2 J454B + H ++ ' 8&43 3 33 B4 < B 828
:9J928 54 8.B2328 23 < B 828 B2<B:2 28 5@98328
952 ..98 3 :5 8 ' .B92++2 H42 E:+ 23 42 8 .B +4J2I
' 0 ' ' 0 ' ' = ' ' :9J92 283
< 88 J2B2 2++2 42+ 324 JB 54 GB9 3 5 583 53 + '
3 5 3B2 95 583 53 + ' 443B9 3 < ' $ ' "
$9 54 +28 532BE ++28 42 828 :9J928 <2B ; 233 253 42
+9 ' < B 2B + 5G98 4.:93 3 ?92+?92 : 8 882M 4G +2*
; 253 @ ' ' ' E ' Ľ J ' # + 94B 3 E: B
95 <25 <+98 42 2B ; 234 238 E: B@B48 832B4 + ' <B2 ; 4B2
:9J92 428 .B 3 ?928 ?9 ' 3 49 GB9 3 +28 <B2 ; 2B8
@:9B8 23 ?9 ' 82 3 3 4 + ' + :5J92 ' = ' ! C '
/ ' 7N @ 5E ' "CN ' Ľh6 + 82 4 3 988 ' 428 5 ; 9A '
5"2 +:9 3 4&43B2 E ++ 53 < :9B E: B ; 8 952 : 8
8:5 .=2E + 2 ' :9J92 ; ' 0 * ' .= ' N 29B
:9J<2 ; <4392982 H428 :9 8 2B8 25 5 82 B +253 3
' E ' N ' Ľ F ; <239:8 34 5 39B2+2 ' 5
.G2E + ?9 ' 3B:< 42 :9J92 ' + 93 + 9 ' + 882B < 8K
82B 8 ' :9J92 ' 2 , ' ' N >& ' 4: ; <34
+ ' :9J92 ; <4392982 42 ; ' @29528825 ' = '
& ' " 82<3 ' "CC ' >2 5& ' <9 B2325 B .2332
#' :9J92 ; <B9425320 5 ' A " ' 9 " ' ; <32B 3:93
4&95 .:9< + ' :9J92 42 8:5 . B .32B2 428 ?9& + 283
. B4 5 + H A32*$9 53I 82 4:552B ?9 5M2 58 <:9B
5. < G+2 4& B28 23 89B3:93 42 B2J52B 5 42
4232B ; 52B 95 @:9B 25 8 E29B +28 *89 B J28 42
3:98 .29A ?9 ' . : ; <3 253 B2J52B 8:98 8:5 5 : ; 5 '
, ' "F" ' Ľ 28 :9J928 42 + ' @2952882 &2 ; <:5382*
; 253 E2.' +2?92+ +28 @29528 J258 82 + EB253 9A <+ *
8 B8 ' ' " ' &2 ; <:B32 ; 253 <B:<B2 9A B3 8328 23 ?9 '
+29B 3 B2 428 = B4 28828 23 ; 4 ; 42 428 4. B38 '
988 ' @2 ; &4 ; 2BE2 ++2 9 29 ?92 39 H+2 <:232 2B*
3 93I B2.2+28 $9&95 28<B 3 8 ' B 88 8 3 428 :9J928
8 ' G2++28 ' # ' E ' + E 3 .2B3 528 :9J928
4&28<B 3 ?9 ' 5&43 253 < 8 ; + <+ 8 5328 ; ' E '
E5 +233 ' " ' B2G29 4 58 8 ' 3B 49.3 :5 42 + ' 33 B6
8 +2 <:9882 + ' :9J92 42 9 5 25 5:3B2 + 5J92
<+98 +: 5 ?9&2+2 52 E ' 4 58 Y8 2552 : - '
A ' , ' ' 4 58 6 " ' $92++2 :9J92 5K
4 8.B232 ; 452 89B +28 B 5J2 25.2B .2 E 2 + 3=K
+232 ' " ' O ' >2 3B:9E 8 4 58 8:5 @29 3B:<
4&2.+ 3 3B:< 42 :9J92 < 8 882M 42 8:9<+2882 23
W 1 42 E B 3 6 6 ' ' Ľ 6 NB ; 2 4&=: E
3 .9+39B2 ' .2 93 4&95 BGB2 ? ' <:9882 G2 9 .:9<
42 G: 8 8 58 4 552B 42 B9 38
" - ' # ' O I 8 ' H G8 95 . : ; G 3I E:98 25J J2M
*(%' " E +29B 23 E:83B2 :B3952 = .2++2 42 E:83B2
.=2E + ' 8:5 2 B:R :9 8 ' :9J92 E:98 B254253 :9
32 ; 2B 2 :9 + 8.=2 ' 3 N"
- ' (# ' $ B ' ' 2M 4 3 ?92 .2 ; :3 a3 3

<2582B 9 + 3 5 , ' 9 32 ' . 982 ?9&:5 <293 .:5*
8 42B2B < B3 .9+ 2B2 ; 253 4 58 + ' , ' + ' B < 4 3R
23 25 3 B2B +2 8258 42 , , 3 ; 8 + @:932 ?92 +2
+ 3 5 *, ' 29 :R2B 283 <+98 E: 8 5 42 & 4 2 42
, , ' 5 <293 @:932B ?92 & 4@2.3 ' * ' :9*
J929 4:552 42 & 93:B 32 6 B23R ; :+:J 2 42 *, '
; 8 *, ' 4:55 53 25 3 + 25 , * ' + 94B 3
E: B , ' 2832B 3 6 89<<:82B ?92 , , ' 283 95
; :3 6 :B ; 2 <B:E25? +2 QE:R ' % @ ' 23283< 88425
3 + 2 ' 5 E: 3 ?92 &23R ; :+:J 2 42 .2 ; :3 5&283 < 8
3 B 2 ' .+ B ' B 882 ' 4 3 , , ' <:9B , ' .2
?9 ' 283 ' 2:58 44B2B ' $92 @2 89 8 2559R4 42 E:8
+:5J928 B24 328 .B E 58 ; G J98 28<B 38 =2 ; *
<=B:4 328 9 ' 89 E2M 3:932 9J92 23 ?9 ' <B252M +2
3:5 9@:9B4&=9 ' 42 B 8 42 ; 5 42 = B253:5
< * * ' ' * * ' < ' CC 4 58 .3+ ' 5
3B:9E2 , , ' :B ; 4 42 , , ,7 :' ! ' 42 2G*
5232BB2 82 <B2E +983 G2 9.:9< 42 .2832 < . B428?92
:9J:98 32 -: ' 8: ' 8< J5*[G<:5+ 4
' ' Q :9*J=&/ 8 ' ' 2B ; 2 42 ; B 52 ' ! 3
42 :9J92 +2 ; =3 4& B3 ; :5 ' Ľ 2BJ92 42 :9J92
E2BJ92 ?9 ' 52 <:B32 <: 5342 E: +28 23 ?9 ' 52 82B3
?9& ' G:B42B 23 43254B2 < B 2G 8 + ' E: +2 49 <2BB:B
?923 4& B3 ; :5 ' Ľ 2BB:?923 42 :9J92 =95 2B 49
; 3 4& B3 ; :5
- ' ' & <B 8 > + :5 52 3B:9E2 :9J ! 2 ?9&25
"NF 4 58 +2 0 6 ' " ' ' 42 :B3 3228 9*
< B E 53 :5 4 8 3 " ' " ' ! 7 ' 58 ' 5: ; ; 2 < B.2
?92 +2 E253 ! 7 ' <B2882 <+98 < B3 :9+ =B2 ; 253 +2
; 349 53 9E 8 325 <8 ' . :BB9<3 :5 ' 43 ' <B:49 32
< B & 88 ; + 3 :5 E2.' ! 7 / 7 ' " 0
3 ' ' Q :9*J=G* / 8 ' ' 2B ; 2 4& B3 ; *
+ 3 B2 ' :B32 42 8 2 42 <23 32 4 ; 258 :5
S F ' Q :9*J=2 J=2"W&/ 6
+2 5 42 :9J92 ' 29B << 3 3 :9J929A < B &:G@23
2A. 32 B.:9B3 3:58 +28 B2.: 58 4&95 ; :583B929A
< 3 ' $ ' = , ' ' ' 2 J529B @& ' 428 ; 8
$9 ' 8:98 .2 @:9J 5:9E2 9 8:53 6 B2JB23 8:9 ; 8 $9
4 4 J5 53 &2BB29B 428<29<+28 ; G .+28 58A2
3:BB253 :9J929A B283253 829+8 ; ; :G +2
' , ' 0 " ' $9& 82BE ' .:53B2 R+2 952 5 ; 2. *
G +2 ' B +2 :9J929A >9B 29 R+2 <2B82.932 2B '
428 G: 8 28<B 38 ' @ ; 8 B28<2.3 5 ! * ' 3
4&95 J2 :9J929A & ; <B9425.2 54:. +2 5 ' ! *
' >2 32 <2B8 .93 P ; ' :9J92982 @2952882 258
3:5 =:5529B .. G+ ' 3 E 2 ++2882 5 ' @ (& ' 9 " '
' <+98 5:G+2 .:5?9 32?92 &G: ; ; 2 3 @ ; 8 32
283.2++2 42 .2 2B 23 :9J929A 5 ; + ?9 ' < B3 J2
E2.' +9 ' +28 3 J928 42 + ' J92BB2 ?3 + ' J+: B2 42 '
. : ; G 38) ' 1& 5 ' 83*.2 = ' E:98 + GB2 2BB 53
:9J929A 4 58 E:8 Q :8 B8 ' J:432B . : ; 2 ; : ' .28
528328 <+ 8 B8 59. 8 N W[5 ' Ľ 2 4 3 4& B '
GB28 ?9 ' <:988253 G2 9.: < 42 G: 8 8 58 4:552B
G2 9.:9< 42 B9 38
' # $ ' * 0 4 ! (5 " (4 0 7 / ' ' -%0& *
' Q :9* 2/ " ' " ' 42 :9 B 5
.= ; < :9 ' E2.' 4 + J25.2
' Q :9* & ' ; :9 ++ 28 23 5:5 :9*R2/ '
@ ' 9E2B39B2 432 25 :9 ++ 53 + ' 32BB2 <:9B
.B2982B 95 . 5 + 428 :54 3:58 9 2 ; 52 <:9B
; 233B2 ' 4 .:9E2B3 42 E 29A ; :59 ; 2538 2582E2*
+ 8 23.' 28 :9 ++28 4&#2B:9 59 ; ' 23 42 ; : < +
58 95 < R8 . : ; ; 2 + ' B 5.2 : + :5 <293 2 ; K
<+:R2B +28=: ; ; 28 ' 4283B E 9A B ; 253 93 +28 :5
:B 3 95 G 25 B 2+ 25 4 :54 53 .29A 42 + ' :9 ++2
428 ; 528 4&:B 23 4& BJ253 ?9 ' 52 <29E253 <B:49 B2
?9&952 B :G2882 .3 E2 233:9@:9B8 4 .B: 88 532 %%
A ' 3 ' ! ' < ' ' 4 58 +# ' 28 ; 528 42 ! R*
. 528 :533B 8V ! U533928 9@:5B4&=9 ' . 982 42 :9 +28
?92 +:B4 +J 5 R ' ' 3 B2 ' 8:5 < 88 J2 25
B .2 ' $ ' ` ' < B3 2 ' LL :9 +2 . :9*
E2B32 .2++: ' ?9 ' 82 <B 3 ?92 &= ; M:53 +2 ; 253 4 58
95 ; 88 ' :882 ?92 :53 +28 <+: ; G 2B8 +: 8?9& +
5&R ' <: 53 42 B2J B4 <:9B B < B2B 428 .:549 328
?9 ' 9 253 ' Ľ J ' >2 <B:@2332 952 :9 2 ' H+ ' G G+ : *
3=G?92 42 + & GG R2 42 +:B25.2 ?9 ' 5:98 <B:49 B '
?92+?92 * ' < ' - ' + ' '
* ' (! ' :R '
+ ' Q :9* 2 2 A ; :9 ++ 28/ # '
' 42 :9 ++2B ' Ľ 6 ' 32BB2 G9 3+ 2 <:9B ; 233B2
9 @:9B +28 ; 528 42 5 E2 ' ĽF ' a9B ?9 ' :5 ' 3
952 B2.=2B.=2 ' B2 52 < B 3&:B4B2 49 B: 93 :9 +*
+ 2@98?924 58 8:582 5 9 +*42* B .2 '
" % ' B.:9 ; ' E2.' 8: 5 4 58 3:9328 +28 < B3 28 '
2 G: 8 :9 / + ' < B + ' J254 B ; 2B 2 < 9B R 8 +8 B 428
; + 329B8 ' Ľ ' 82 4 3 428 :9EB J28 42 <+2BB2 :9
42 . 82+9B2 *$$ +2 3 E + 49 ; B323 ; 49 . 82 9 283
3BG8*8: J5 ' 52 .:9<2 G 25 :9 ++ 2 Ľ J ' 23 < B
G338 ' 5 83R+2 :9 ++ ' 5
* * ' Q :9* *<: hh ; :9 ++ 28 23
5:5 :9*R *<:/ ' 23 3 ; B ; 3:5 ' B2552
3BG8*8: J5 ' 52 .:9<2 G 25 :9 ++ 2 Ľ J ' 23 < B
5:5 :9*R ' *<:3 <9+8 .9 8 5 2B <BG8<:B32* ; 532 9
42 :9 +2* 9*<:3 <9+8 .9 8 5 2B <BG8<:B32* ; 532 9
42 #253 ' ' 23 ! 2B.9B2 42 828 <+ 8 B8 82 ; + 4& *

B28 @98?9& ' 42E25 B .:58 4 3 G+2 ! ' DDJ ' EF
' ? 7 7# ' 28 :9 ++2* 9*<:3
' ' ! 7 # ' 7 ' !
,@ ! ' Q :9*++2* ; 5 A ; :9 ++ 28/
W ' ; ' .3 :5 42 :9 ++2B 42 .=2B.=2B
- ' # ' O I 8 ' : ++2 ; 253 :95 ;
' ' ! 7 #
j ' * ! Q :9* + * ; GB*4& > ; :9 ++ 28/
' ' : ; E9+J B2 42 <+98 29B8 5822328 .:+ :<3 *
B28 ?9&:5 3B:9E2 4 58 +28 .= ; <8 8:98 +28 G:9828
42 R .=2 ' Ľ4 9 ' 7# ' 28 :9 ++2* ; 2B42
' Q :9*++ ; :9 ++ 28 23 5:5 :9*R /
' ' 3 Ľ " B2982B + ' 32BB2 ' 5 :9 ++2 + ' 32BB2 hX9B
3 G+ B +28 :542 ; 2538 :9 ++2B +28 B9 528 42 5 E2
42 GR+ :52 ' 5 :9 ++ 53 ' :54 42 .9E2 +28 32B*
B 8828 42 .2 @ B4 5 + 3B:9E ' 428 . :?9 ++ J28 :8*
8 +28 23 + 25 3B:9E ' 25 8 ' JB 542 ?9 53 3 ?92
8:5 ; J 5 3 :5 2A +3 2 52 E 3 <+98 ? 2 .:?9 ++28
4 58 + ' 5 39B2 ' > ' ' :988 ' 1! - ' B ; ' 52 8& J 8*
8 3 < 8 ; : 58 ?92 42 39B2 :9 ++2B + ' 32BB2 ' 429A
< 248 23 42 ; ' 42 <B: :5429B 42 + ' .9+3 E2B 4& G:B4
. : ; ; 2 :5 .9+3 E295 @ B4 5 ' K ' - ! ' - #! "
<7 ' 3 ' (5 < ' " 4 58 + ** B 2A325K
8 :5 ' 52 G: ; G2 42532 ' ; G2 23 :9 ++2 '
JB 54 G ; 3 + ' < E ' 428 . 328 E ' / ' " ' M
:5 .G2E + ' &:2 + 53B < 42 ' 28 < 248 :9 +253
+2 8:+ 8 ' .B:9<2 283 G2++2 ' E: B 5U # - ' "
' 6 =2B.=:B 25 .B298 53 +4:EB 542 B2 ; 3?92
?9&2+2 H+ ' G . 88 52> ' +2 G: 3 42 + ' + 5J92 32B ; : '
. : ; ' +28 < .8 < B 95: ' <: 538 J9 <B:@9*2 <2B*
.2B +28 E2B8 ?9&2+2 :9 ++2 4 58 + ' E 82 ' U
% ' O ' < ' RA 4 58 M ' > ' 4 J+ 4253 988 '
+28 G B48 428 B 882 9A 25 R :9 ++ 53 28 : J5:3 a428
' ; <G32 ' 4:53 38 E E253 ' G ' ! '
@ 7" ' ' ' :9 ++2B 42 + ' < 2BB2 .=2B.=2B 42 + '
< 2BB2 ' > #(& ' "C"N ' ĽF ' :9 ++2B ?92+*
?9&95 .=2B.=2B 4 58 ' <:.=28 <:9B E: B 8& + 5&R
. .=2 <: 53 ?92+?92 .=:82 ' & 93B2 @:9B @&R + 8 8
H4 58 + 532I 4&95 E 2 ++ B4 ?9 R 5389B<B 8 ?92+*
?9&95 9<B 8 49 + 29 :h3 + E 3 . 2G ' :5 3B28:B
+2 :33 ++ +9 ' 3 ; :53B2B + ' ; 5 4B: 3 " 23 <9 8 + '
J 9.=2 23 5&R 3B:9E 53 B 25 ' 9 ' 233 ' 7 ' 5
+2 :9 ++2 23 &:5 3B:9E2 25 5 +2 < 882*<:B3
A ! # ' 8 ; "#7 ' 5 ' ++:58*B2548*+2* ; : 8 58
32 :9 ++2B ' ?5 # ' ' ! 8 ; & 53 BB 3 ' 23
:9 ++ ' <:9B E: B 8 ' < B = 8 B4 @2 52 82B 8 <: 53
.= *J ' 42 ?92+?92 < < 2B ?9 ' < 3 3:9B52B 9 <B: 3
428 .B 5. 2B8 # ' ,7# # ' E "N / / "6 :9 ++2B
+28 ; 598.B 38 +28 G G+ :3=G?928 R B2 428 B2.=2BK
.=28 + G:B 29828 ' 58 +2 ; ; 2 32 ; <8 : ' : +2 9
4:55 38:5 B3< : 3 ?92 . 52 <= J : 223 3= *
+ 2 $9 5 9 3 3R8 23 B ; 42 : ' 252+:5 .B E 3
8:5 + ; ?92 : + : 8923 4 .+ ; 3828 B 8:58
95 GB28 :9 29 GB95 <2 J5 3 :9 B B4:J 8.9+<3 3
: + 49 5J2 :9 ++ 3 +28 ; 528 428 8 .28 G BG B28
<:9B 25 3 B2B 428 3B 8 B8 ' 9 ' ' & ' @(['
K ' >& ' E:R J2 2=2M G2 9.:9< 42 <29<+28 @& '
:9 ++ ' +29B8 G G+ :3= ?928 @& ' .:589+3 ' +29B8
4:.329 8 ' " ' ' " " ' 1& 7 ' - " ' Ľ J '
:9 +2B + ' ?@39B2 B2 428 B2.=2B.=28 <:9B + '
.:55 +3B2 ' &2a3*.2 < 8 &=: ; ; 2 ' :53 + ' E 32
8. 25.2 2 ; =B 88 53 3:9328 .=:828 ' :9 ++ ' *5 K
39B2 25 ' <2B. ' +28 . 9828 ' @ ' E ; ' Ľ J '
:9 ++2B +28 .254B28 428 ; :B38 B2 952 B2.=2B.=2
:4 .9882 42 + ' E 2 4&95 G: ; ; 2 ; :B3 ' Ľ c 2B ; 2 42
J92BB2 ' :9 ++2B 95 G: 8 R 2 B:952 B2. :55 88 5.2 '
28 E 5?929B8 42 ; < .=2 2 ; <>:R B253 429A
; : 8 ' :9 ++2B 3:98 +2 ' 25E B:58 42 + ' E ++2 ' 4:9M2
:9 ?9 5M2 + 2928 25+2E 53 3:93 .2 ?92 +28 9R B48
E 253 . ; ' 8 9E2B $ ' # 83 ' <= + ' A / ' 2
93 9 3B E2+8 42 .2 =:9+2E2B82 ; 253 ?92 <:+ 5
B253B ' 4 58 ! :8. : P ' & G 54:55 ' ' .2 < ++ J2
28< B 53 ?92 8:5 B ; 2 B < 5492 89 ' .28 528
52 +28 :9 ++2 3 < 8 5 ; 2392982 ; 253 # 83
42 # < ' E ; F ' ĽNO 2B ; 2 42 8.9+<39B2 4& B.= *
32.39B ' e ' 23 E 42B +22 ' : ; 2 ; 2538 <:9B +29 '
4:552B <+98 42 B2+ 2 ' :9 ++4B +2 ; BGB2 ' 93B2 : 8
:5 :9 ++ 3 <B: :542 ; 253 +2 ; BGB2 428 .G2 ; 5 28
+2 G: 8 428 <:B328 + ' < 2BB2 428 . :B5 .=28 ' Ľ 2332
4 <2B 2 283 G 25 :9 ++ 2 +28 <+ 8 25 8 53 JB 548
23 G 25 "E 4 8 ' Ľ J ' 23 < B G98 ' :9 ++2B 8:5 83R+2
C6 2B ; 2 42 ; B .= +2B 2 ' A<+:B2B 8 B 95 5 K
; + ' ' 42 42 + ' ; 5 53B:49 32 4 58 +2 B2.39 ;
+28 4 E2B8 :BJ 528 49G 8 5 23428 25E B:58 ' ĽF ' 5 '
B2 428 .B29A 4 58 + ' 32BB2 ' 3 9<2 ' :9 ++ ' + '
:98 5:98 328 :9 2B ' .9<8 42 52B ' 42 G229
4 58 +28 ; :53 J528 < : B 25 3 B2B 952 28< .2 42
32BB2 @ 952 ?9 < B 2++2* ; 2 5&283 G:552 ' B 25
! $ ' :J ' 42 2 B ; 253 4: ' +98 :5 :9 ++2 4 58
53 B+29B 42 + ' +2BB2 <+98 :5 3B:9E2 +28 . :94 28
< 8828 # 83 ' 0 , / ' ' >, /
< ' N 4 58 7 Q ' Ľ B 2A3258 :5 ' 2<B2*
?9 .G2M +28 .R3=28 :9 ++ ' 4 ; 8+ ' .2BE2 2

JK

B2M0 23' 28' .=2E 98' 98'& '283: 253'Y ' :9+2M'h3 @ '
3 J9'8I0 >: 'ME6'8' 3' 424 58'429A' 58' :9' 3B: 80*
?9 54' +'H+28J2584 '492' 4& 5@:9I' 82B: 253' : +'80
3 8848 23' 3 5548'' +'H = B+28' 42' 9B 8I' +28' .: ; G 3*
32: 3' 4' 8:5' E 53 J20 ' 50 50 * 82' 2B39' 23'
E ++ 5.2:9'< B 32'25.20 3 538: 34+2' 234220 52'
+ 882' < 8' <:9B3 53' 4& E: B' 4& 9.3;8' + ' +:9 5J2'
?9@2+2' 4: G3' E: B0 # , + ' 50 2' B:9J2' .=2K
E +2B0 ?9'52'82' : ; : 3'<: 530 _ 8: 3 3 53' 4& B ; 280
?92' 42E 53' 828' .:9<8' +' 52' 42 ; :9B: +'.=2E + 2B' 25'
82+20 0 * '3' 5+0 0 88' 2' 3 2B8 H+2' 6 .= 8K
829BI' :9B8 +2' <B 53' 23 +2' :9++'8:9GM +9R0 ' E0
8' 2B:53'32598 :9++2B' 898' 283 G+2' 4' + ' ; 5'3 53'
829+2 ; 2530 8 5a' :9++2B' 9'< 24 ' C ' ; B8
M ' ' AE 6 8' S'B2.2E: B' 3 53' 42' .2BE2++28' 283B 5*
J 2B280 +'283 52.288 B2' ?92'+ '8 2552' 82' :9+20 82' .:5*
3B J52' 23 B ! 23 882' <:9B' B2' <+ .2' 9A' 9+3B280
? ' ' =2+?9& 95' 25' ; 28'@:9B80 283 53' B2<B:*
.="< B+2'B:R'4& E: B' ; 8'+28' ; 58' 89B9 5'<B28G3B20
+2 5 : 3' :B3'23 2B ; 2' '2&283: 3'?9& +' E: 3' G 339' 23'
:9+2 9A'< 2480 !' ' 28' ; 28' 82B: 253' S 82'
:9+2B 6' ?9'<B254B: 3' <+ .2' + ' <B2 ; 2B2 ' 5' 50
F' : ; 9 2' 8 '8:5'G93' 283: 3' 42' :9+2B' 9A'< 248'
+2 J25B2' =9 ; 50 *: 'YAY' 28' 9+: 8' 283 *
; 2B2=3'+29B' =:5529B' :9+4' 25.2?92+28' 2; 58'
+28' ++: 253' 88 ++ B' +28' <B2 ; 2B80 ' 1 '
C ' 29@ 828' 4 '82 ;'<: +=29B0 .: ; ; 2'8& +M 2988253'
G9+2' 49S0< 248' .2+9R' ?92' + ' :B3952' E: 3 G 390
' , ! ' ' + 2' B2<94 2B' 58 ' S + ' E:++320
428' <B 5.28828' 4:' ! 25' 23' 4&=:5529B0 :9+ 53' +29B'
B2<93 3 :50 B+S0 0 ' 2' ; 3 5' :5' E 53' <:9B'
B: ; <B2' 23' :9+2B' + '<:B32' 42' 8 ' .= ; GB20 <:9B' + '
3 2B0 5 3 0 1 ' # ' 3' E0 <' '0' 4 58' i 6
-b !* &e ++:50 ! #' ; B.=2B' 89BP' <B:E25^'
! a#' AQ#3' 28< J5' &! #3' 3 + ' ! #!3' 4&95'
bB 4 . +' + 3 5' A ' ?9' 82' 3B:9E2' 4 58' 7 !' :9+:50
23' 4 58' 7 7# ' <<9R2B' &283< B' 952' 42B E 3 :5'
. +2' ?92' 42' !7 !#'82BB2B0 <X882B0 :5' '3 B4' !7 '
<B2882' 42' J258
$ 'Q :9>:&B 2/0 6' ' 32+ 2B' 42' :9+ J2'
+' ! .= 52' ' :9+2
-'# 0A 56'8' :9B' .2' ?92' <+98 29B8' B 9428' 23'
; + .28' 283: 253' 2328' :9' ; 283 2B' 42' + ' :9+2B 20 23'
4:53' 4< ; ;' E25: 3' 9' .: ; ; :5' 49' ; 283 2B '
= / ' ' '"
'3 ' !7 #
' 'Q :9*+29B/0 ' 'LL "' 2+9 ' ?9' :9+2'
+2' B 8 5' 4 58' + ' .9E2'LL 6' R5:5R ; 2' 42' :9+:5'
4 25828' 9A' :9+29B8' 4284 38' :9EB J280 42' 82' 82B*
E B' 4& 93B28' 583B9 ; 25380 0 23' 9A' :9+:55 2B8' 42'
; :9+ 58' "' :9+2B' 4B < 2343: 280 42 '?## '"7' 1!-)'
' ' ; B8' "C 'LL B' :9+29B' 9' 3:552 90 :9*
B 2B ?9' :9+2' 4 <8'+' .9E2' +28' <2 9A' 42' + < 50 42'
+ EB20 42' .= 30 42' .= 25
-'N (!0 !7 #
3+ + ' Q :9*+: B/0 ' ; 'LL 6' 583B9 ; 253' E2.'
+2J92+' :5' :9+2' 'S2' + 29' := ' :< :9+2'+L 0 583B9K
; 253' <:9B' 5233:R B' 952' < 42242' . 5:5'LL ' 583B9K
; 253' E2.' +2?92+' +2' 4253 832' 25 :8.2' ; +J ; 2'
4&:.'23' 42' <+ 3 52' ' '8'+ '. E 34' 4&952' 4253' . B 42'
<: B' + ' < : ; G2B'LLS6' <=22' 42' . 4882' < : B' :9+2B'
\E 2 5 4 3' 2
' U ' 2=3+2 0
* 0 'Q :9*+: *B 0 8' ' 2B ; 242' .= <2*
+ 2B' G+2' 9 ' + ?92++2' :5' :9+2' +28' .= <2 9A'
' 2B ; 2' 4:'G:55:3@2B' B 54' .9E 2B' 4 58' +2?92+' :5'
:9 2+28' = 8
-'# 'O I'8' '<+98' 842' ; 5 2B2' 42' :9+2B'
+28' B 8 580 25' 283'< B' + ' :9+: B2' ; 82' 89B' + ' .9E20
4 58' + ?92++2' 95' =: ; ; 2' '< 248' 598' 23' ! 25' + E28'
28<B ; 53+28' B 8 580 4:53' +2' ; :983' 8&28.:9+2' 4 58' + '
.9E2' < B' 428' 3B:98' 38' 9' :58' 42' + ' :9+: B20 ' '
8 =5 8 0 ""
'$- ?' ! A #
'Q :9*+:5/0 8' ; ' 6' B3 8 50 4 3' 988'
:9+:55 2B' 23' ; :9+ 5 2B0 ?9' <B4< B2' +28' 43: 28' 42'
+ 52' 25' +28 8 53' :9+2B' 9' ; :9+ 5 ' 28' E432 ; 2538'
< B9B253' ! 528' .: ; ; 2' + ' 52 J20 23' 4&952' G+ 5.=29B'
?92' 59+' :9+:33' 89B' + ' 32BB2' 52'<:9BB 3'@ ; 8' 2J *
+2B0 '!7-' , '@ 'C #(' .=' A' 0 3B 40 42' :B3*
:R +0 4 58' 3.# 'LL!:9+5' ' :9+:50 ; :9+ 5'
?9'82B3' ' :9+2B'&"(4B <8' LL 2BB2' ' :9+:50 BJ +2'
?9'82B3' '44JB 882B' +28' 4B <8' +' H ; B2I' 52' 3
< 8' 952' ; 253 :5'< B3 .9+ B2' 42' + '8:B32' 42' 32BB2' '
G9+:5' 4:53' :5' 88' 82B3' 25' 5J+232BB2'< : ; ' 443 .=2B'
'23' ; 4 ; 2' +983B2B' +28' 4B <8' +' 283' 42 2549' 4&25' 2A*
0' <:B32B0 23' .2332' 32BB2' 283' 25' 2 23' 4&952' ?9 + 3R' 89K
< B2 ; 2' '3:9328' .2++28' ?92' :5' 2 ; <+:@2' 25' B 5.20
:9'@W' 89 8' < ; 89 44' 54 5 ; : 58' ?9&:5' <:9BB 3' 25'
3B:9E2B42' 82 ; G+ G+20 ' C - ' 3' 9 '<' 0
4 58' :: ' = B4:5' ' :9+:50 E:R' 6 '
5 6' B 882' 2? .2' 42' = 5523:5' LL 5' :B ; 54 20
B2+:5']'

o # ' AB 6' 8' = B4:5' ' :9+:5' 4:53' 250
3:9 ; 2' +28' 4B 80 + ' 2G BB232' 4: 3' 429A' 425 2B80 '
852' :G:+20 ' .:+' 5: 530 A 5' ' ') 'LLA E6'8'
$92' 9.958' 52' <9 882' :9' 4: 2' 28.9B2B' 9' :9+:5'
9.958 4B <8' '8 5' HJB 882I0 ; 8' ?92' ' + '32BB2'
23' ' 2 92' .= 942' 3 53' 829+2 ; 2530 C ' ' '
- '3' 50 <' ""N' S 6' 8' 2' .: ; 32' 42' + 54B2' 3'
42.:++2B' ; 2.= 58' J258 0 32+8' ?92' :9+:58' 23' 3 882*
B 548' ?9' E: 253' ; 8' ' ; :B3' 828' .=2E + 2B80 '
30 90 N ' S 6' 8' 5?928' :9+:5' 52' . B288 '.= B*
G:95 2B0 ' ' '3' 50 <' "
-' (! ' 3' ' , ' :9+:5
3' 'Q :9*+:*5 2/0 ' 'LL 6' :R' :'
' ' 0 B:<B 23 B2' 42' ; :9+ 58' ' :9+:5' 8:58'
42 25828' '3:58' GB . 58' 23' ; B2G 548' 42' B2'
:9+2B' 23' <<B 32B0 23' '3:58' :9+:55 2B8' 23' <<B4*
329B8' 42' B2.2E: B' 9.9528' 4284 328' 43: 280 8' 2++28'
52' 8253' B2E43928' 4284 38' <+: ; G8' :9' 2 ; <B2 53280
= ' " ' "@9 5' "CF 0 B3'N
-' (! ' - ,
$ 'Q :9+*\&/0' ' 25B2' 4& 82 9A' 4.= 8*
8 2B8' 4:53' .=2?92' 28< .2' 283' <<2+ 2' 988'<:9+2'
4&2 9' .: ; ; 2' .2++28' 42' <+98 29B8' 93B28' J25B280 '
' ' ; '?9'8& <<+ ?92' <B 5. < +2 ; 253' '+ '
:9+?92' 3B 8*5: B20 4 32' 25.:B2' JB 542' :9+?920<:9B'
+ '4 83 5J92B' 428' 93B28
-'# ' S 6 8' &25' R' ; 23' < J:580 8 988 88280
:9B?9280 A " ' 0 %
- (! ' B:E25^0 '28< J5' , * ' 49' + 3 5'
, * ' ..253'89B' ,
' 'Q :9*+9*B&/0' ' # 6' .3 :5' 42' :9+2B'
428' 4B <8' L+ 2B ; 242' .:BB:R25B :9+9B2' 428'< 9A0
.3 :5' 42' +28' :9+2B' 9A'< 2480 8:3' '82.' 8: 3' ; :9 +*
+228' '& ,' " , ' 2B ; 2' 42' .= 882' ! B?928' + J *
B28' ?92' +2' < 2' 4' 49' .2B '+ 882' 89B' =2BG2'LL ' +28*
89B2' 4&952' < B 2' :9+ 2' '8&283' 3' 952' :9+9B2' '
&95' 428' < 2480 23' +' 52' <253' ; B.=2B' LL J' 23' ; *
+ B2' ; 253 +5& 33B <2B < 80 :9' +' 52' 82' 4:552B '< 8'
42' :9+9B20 +'3B E 2' ; :++2 ; 253' 23' 8 58' 82' <B2882B
-'# 0 A5 6' 8' & +' .:9832' 'J B B' 42' 8' :+9B20
. +' ?9' 3B 83' +2' .:<' 283' 32598' '< 2B' +28' .:98380
?' ; A0 ' 'SE6' 8' ! 9E 82' :9++9B2' H.:539K
8 :5I' 283' ?92' 42' 9830 0 #(!# ' ' ' LIAE 6'8'
3' 8^ E: 30 8 58' E: B' E2 ' +2' .2B 0 ?92++2' 32832' +'
E: 30 5' E:R 53' 829+2 ; 253' 828' 2BB28' 23' :9+29B280
' ' 2' :9+9B2' 2' G.29 '283 53' :9+4' ' + '
328320 :9' 9' .: +Q.: ; ; 2' E 253' 8:9E253< B' +2' @:9J/0
94B ' <<+ ?92B' 4288 80 95' .:9<+2' 4&:29 8 B: ; <98'
4 58' 95' <+ 30 :' ' #) ' 7CC0
-' (! ' - , '< . B40 , 'G+2889B2
3' 'Q :9*< B/0 3/' ' 2+983B2B0 .= :552B'
952' 23: 2' 25' + ' ; 5 53
-' (! ' - , " '4:53' ," '283' 952' +32B 3 :50
E 253' 42' 5. 25' B 5^ 8' " ' " '?9 '283' +2'
; :3' .392+' "
$ 'Q :9*\2/0 ' ' 8< .2' 4&= B:542+2'
42' ; 2B' ' 5. 25' 5.:'E9+J B2' 42' 4. 9B29 +
-' (! ' ; 593 '42' - , + , ' 5: ;'<B:<B2P +28'
5: ; 8' <B:<B28' 8253' <+98' 4&952' : 8' 42E2598 5: ; 8'
4& 5 ; 9A' - , + , ' +2' . + GB2' 89B 53254 53' 8:98'
:9 8' S 0' <:B3 30 < B' ++98 :5' 9' 8258' 49' ; :30 95'
4. 9B29 +' 4 58' 828' B ; 28
"' 'Q :9B/0 ' ' 'LL " 9EB J2' 42' ; ^:552B 2'
B:54' 23' E:4340 :9' :5' 3' .9 B2' +2' < 5' = 9 2B' +2'
:9B' = ?92'@:9B' +' ++: 3' E 8 32B' +28' :9B80 J: 32B' +2'
< 50 23' 8& 889B2B' 42' + ' B4J9+ B 34' 42' 3:9328' +28' 4 8K
3B G93 :580 8 0 ' '. "'E0 "'LL ; 'G 5 +0
:9B' 9?92' +28' = G 3 538' 4&952' .2B3 52' . B.:5*
8.B <3 :5' 3 253' :G+ J 8' 4&25E:R2B' .9 B2' +29B' < 5'
8 58' <:9E: B' +2' B2' .9 B2' .=2M 29A' LL :552B' +2'
:9B' 3B:<' .= 94' '49' < 50 '42' + '< 3 882B 20 ; 233B2'
.9 B2' +2' < 5' :9' + ' < 3 882B 2' 4 58' 95' :9B' 3B:<'
.= 9 ' ' :9B' 42@2 ; < J520 :9B' <:B3 3 'LL 5' 95'
93B2' 8258' :9B' 42' . ; < '20 983258 +2' 42' ; 2K
5 J20 28< .2' 42' .:9E2B.+2' 25' 3 20 '4:9G+2' B2G:B40
4:53' 950 <+98' .B29A0 2 ; G:+32' +2' <+ 30 23' 4:53' 9*
3B2' B2.: 3' 428' .= BG:58' ++9 ; 8' .2' .:9E2B.+2' 82'
; 23' 89B +28' . 882B:+28' :9' <+ 38' 42' .9 EB2' <29B +28' 25*
E2+:<<2B' 42' .= +29B' .: ; ; 2' 4 58' 5' :9B' LL .2' 42'
:9B0 J 32 9' 23' 93B2'< 2.2' 42'< 3 882B 2' 9 32' 9' :9B'
9' + 3 J20 ?92+?92' < .2' 42' :9B0 ' '
5' ' 2338' :9B80 8:B32' 42' <23 32' < 3 882B 2' + J B2'
<:9B'42882B380 <:9B'8: B 280 23.' LL B + B2 ; 253' #'
R' 3' .= 94' .: ; ; 2' 4 58' 95' :9B0 230 G8:+9 ; 2530
2&283' 95' E B 3 !8' :9B0 82' 4 3' 4&95254B: 3' :5' + 3
952' 3B 8*JB 542' .= +29B' LL +' R' 35: B.: ; ; 2' 8
95' :9B0 :5'@'E: 3' .: ; ; 2' 4 58' 3 5' :B?82' 4 3' 4&95'
+ 29' 3B 8*.4G8.9B' LL 2' 283' JB 542' : ; ; 2' 95' :9B0
82' 4 3' 4&952' G:9.=2' 3B 8* 2 34 2' g' 5' :9EB 53'
+' G:9.=2' 988' JB 542' ?9&95' :9B0 ' :B.2' 42'
= +2B0 '< ' * ' 'M' LL I' &254B: 3' 2='
283' +2' :9B' ++2B' 9' :95' LL 6' :5A' E:43 8' 23' :9*
B2B38' < B25' = 930 : 3' "/ _ 3' .9 B2' + ' .= 9A0 +2

<+ 3B20 23.' LL :9B' '<:9+230 254B: 3' .+:8' :9' :5'
253B23 253' 952' 32 ; < B 39B2' .:583 5320 89 8 53:'
<:9B' B2' 4:B2' +28' :89 8' >& ' E9' +28' <RB ; 428' 23'
5&25' '<: 53' 3' ; 2BE2 ++ P'@& ; 2' ; 29A' +28' :9B8'
' <:9+2380 4:53' 5E253 :5' 2830 4 3*:50 988' 5*
. 2552' ?52' +28' <RB ; 4280 9 ' ' ' ' ' * '
.=' "' '6' : B2' 25' 3N 2' 2B ; '< B' 952'<:B320 <+ . '
9*428898' 49' :R2B' 4&95'<: +2' LL0 %6' 9+' 42' :9B0 28*
< .2' 42' E: +32' . 53B 2' 25' +2E 3 :5' 4:53' +2' <+ 5' 283'
:E +2' :9' . B.9+ B2' LL N]' :9B8' '.B 83 9A0 . E3 8'
3 < 88 28' 42' .B 83 +' 42' B: .=20 4 58' +28' +<28
C]' 5. 25' 32B ; 2' 42' ; B 52' ' 23 3' B23B 5.=2 ; 253'
3' 25' BB B2' 42' + ' 8:932' 9A' <:94B280 23' @9832*
; 253' 4 58' +28' ^:58' ?9' 8253' :B ; 28' < B' +28'
:9B. 380 'LL F6' 2B ; 2' 42' 3= 3B2' B2' :9B0
82' 4 8 3' 428' .: ; 4 258' ?9' B2 98 253' 42' @:92B' 23'
B25E:R 253' +28' 8<2.3 329B8' ?9 54' + ' B2.2332' 52' .:9*
EB 3' < 8' +28' B 8' LL 9@:9B4&=9 0 82' 4 3' 4&95'
; 4 25' :9' 42' 3:93' 93B2' ?9' .=:920 4&95' + EB20
4&952' 253B2<B 82' ?9' 52' B 988 3' < 8' LL 5' 4 3' 4 580
+2' ; ; 2' 8258' '&283' 95' :9BP' :5' 52' 8& 33254 3'
< 8' ' 95' :9B' 988' .: ; <+23'LL76' :9B' 8&283 4 3'
988' 428' +:J28' 49' . 53B2' 4&95' 3= 3B20 ?9' :93'
25' 2 23 + ' :B ; 2' 4&95' :9B' LL B:E2BG28' :98' E 25*
4B2M .9 B2' ' ; :5' :9B0 2&283* *4 B2' E:98' 9B2M G2*
8: 5' 42' ; : 0 23' @2' ; 2' E25J2B ' LL 2' 5&283 < 8'
<:9B' E:98' ?92' +2' :9B' .= 9 20 2&283* *4 B2' + ' .=:820
B2' 5&283' < 8' <:9B' E:98' 5' 4 3' ?9 '.2332' : *
8 5' ; 233 3' 4 5895' :9B' 3:58' +28<23 38' 25 5384:53'
2++2' 8: 3' E:B32B' 23' ! ' 42' :9+ 5J280 .: ; ; 2'
E:98' <:9E2M <2582B0 52' ; 5?92' < 8' 42' 4 B20 25'
< B+ 53' 42' + ' 5JBR H4 ; 2' 8:9<?:55 2' 42 82' : B2'
E:B32BI0 ?92' .& 3 3' <:9B' 2+2' ?92' +2' :9B' 2= 9 *
30 ' "@ 5E' "N U' LL 5' 52' <293' < 8' 3B2' '+ '
: 8' 9' :9B' 23' 9' ; :9+ 5
-' !' :9B' 4 58' +2' 8258' 42' .=932' 2: ; <+ 32' 9'
3= 3B2' ' : .=2 :B30 4 58' 828' @!75 - #'8 7-'5 7'
" 5 ')' + , (') ' 33B G92' :B J 52' 4 '
.2332' 2A<B288 :5' ' .2' ?92' .23' 9329B' .: ; ?92' E 3'
E:9+9' B2' 4:B2' 428' <:9+238 4 58' 428' :9B8' '+ '
; 5 B2' 428' 5. 258' JR<3 580 23' ?92' :5' < B20
8& 3 53' .= BJ ' 42' 89BE2 ++2B' :< B 3 :50 5& E 3'
B2988'?9& ' E: B' 428' .29 8' 49B8' 0.83 42<9 8' . 3'
5. 4253' G9B+28?920 @:932*3* +0 ?92' +28' 9329B8' 4 *
8253' ?9&952' < .2' ' !7#' ?9 54' 2+2' <B:9E2' 952'
.=932' .: ; < 32' 2332' :B J 52' 5& 83' < 8' 2A .320
<9 8?92' 2A<B288 :5' 4 58' +2' 8258' 5. 25' 283' 53 *
B 29B2' ' = 9+:5' +' 283' <:88 G+2' ?9&2+2' ! 3' 3 B2K
; 82' '+ ' ; :42' 42<9 8' ?92+?928' 55 28' 23' E2.' 95'
8258' 5:9E2 90 ?9'<293' E: B' 3' 4 32B ; 5 '< 8 ' < 8'
:9B' 42' = 9+:50 ; 8' 2&283' ++29B8' ?9& +' ; 93' 25'
.=2B.=2B' 2A<+ . 3 :5' '+28' .: ; 4 2580 B2 :8 53' 42'
@:92B' 23' B25E:R 53' +28' 8<2.3 329B80 2&283 + ' +2' 8258'
<B ; 3 0 - ' !7#' 2&283* *4 B2' B254 253' + '
8 +2' 988' 5: B2' ?9&95' :9B
-' ('S6 8' 28' 3B2 8' 25 5M 3: 93' 25' 95' : ; '
B42530 1&' '< ' ..AA E'LLA ; 6' a' :9B80 ?98 ; 3' +'
E 253' 25' <B 80 4: 3' 283B2' <B 8 8' 25' +2' H+ @' ; 5 2B2'
?92' 5: 8' 42 8 ; 28' 428898' 428' 242 .28P' 2 B' 2&283' 24 *
.280 ' ' 'AAE#0 "'LL !J 8'H +I' ! 5' ; : M+3
2B2 ; 253' +2' ; 9B' 5. 82:9B' H 5. 25I0 $9&95' 3B:9' R'
83' <+98' JB 53' ?92' + ' J929+2' 4&95' :9B0 A#
"8' 2' :9B' 49' .:B8' ^* 1 , '* " ' 2&28'
283: ; .0 5' " ' " 9 + ' 6' F" ' LL A 68' 3'
428.254: 3' 8' JB 53' .= +29B' 49' . 2+0 ?92' '<B2 ; 53'
+' 283: 3' E 8' ' .29A' ?9' 283: 253' 25' +2 B8' B ; 9B280
?9& +8' 988253' 25' 95' :9B0 ' 50 E0 ' 9 :9B'
23' 9' ; :9+ 5' :R3' 25' +28' 5:9E2++280 1' ' / 9'
0 / '3' '<' 0' >& ' E29' ?9& +' <+29E: 3' 23' JB28*
+: 3' 23' 8: 3 5: B' .: ; ; 2' 25' 95J' :9B0 ?92' +2' < :9*
EB2 =: ; ; 2' E25: 3' 3:93' ' < 0 +5' ?9& +' =2' 983'
<2B.290 = ' 6 4 ' ,' '<' " " ' 28' :98'
'283 8' 2+2E2B0 28' 8 J28' + 882B' 25' 4283:9B0 28'
E 3+ 58' ; 233B2' 9' .9+' 49' :9B0 B2' 5 ; 83 ' 23'
42B 8:5 ' " ' ' ' , '6' ,
'LLAE 6' 8' 232 :B3' 593 +2' ' .2' ?9& +' < 58: 30
+9 '4:55 ' .2' ?9& +' 5&28<2B: 3' <: 530 88 E: B' +28' :9B8'
?92' +28' 5:83B28' 8: 253' <:9B' B2' 8 932B + ' .: 5*
3B&28. B<2' 23' +2' + :J2 ; 253' ?9 '283: 3' 428898I' "C
'$- R' *!" #"' '"."' ; "'0%-*/ '$*!'(("2'"%('
#"(46-&*(*46"(' *"!$' #"(' 46-&*(*46"(' 2* + ! "
"8 '%' /-' 4 ' MYB' O'$0-'"' 7 7!"!&"#!!/' $*!" (*/%
%'*-(' 4-"'%"(' /"2"((0-'"(' ' 0#! !/7 '
; * / / "$"+ + "' /"' ("'26"'*8%90+0-(' (0'$- "0!' $*!'''
(-'"&&"' /!8' "!(%' 283 '40'0.0/% "&&*@+2(/&" ' ?'
< ' C F0 "/("< , !"0' (!-&' R' '*+4%0'"' .*!('(2'"<b
U?0'7!"'-%"' #" 0&*-,'&0' 4'"+-"'"' , !-' "/' 4*'%" +'&0'
40(%"' 0!' $*!' "%' , !-' +-' 0!'0' 4&!(' #"' #*0//07"
+ ' "'+!7 ' ' %' -' 4' 1 '#0/(7 '
40!.'"(7"/(&04 0H'7"&"'0!'$*!'' "2 " ' -/"''
0#! '%' / '4')A
''$- ?'G1 < $< ' ' 1 M . ' , C 5'
1I R' ' < ' '$ 2' ' . '2 $

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

JKC

[illegible]

2: ; 542 ; W M89 ; 28<B 8 42 5 B0 '.= 83 +8023 . *
32.'GB 8 2B23 8 + B0 '<2B +M 42 5:8 . :B8 23 428 52*
; 28 H ; 28 I' 89 +B B0 , & ' # 'V " ' 93 .283 . :5*
W2 + E2 253 9 ; ' 23 39B54 ' 3B2 ' <B2+ 3 ?9 ' 2B253
42+9B ; 283 2B 82EB40 ' " ' ' B2 8 <B 3 393 :B8
3 53 ?92 + ' 98 2B3 9B5 8 HJ B5 I0 ' 23 ' & B.2B28*
?92 e8<953 ?9& ' 5&25 E:+3 <+ 3 325 B ?938 52+ '2B3
H 3 3I 8 8 428 . :5328 3 ; B0 ' ' 9 ' <B 8 283 _
2 ; G+2B HE:+2BI :9 ' '32+ 2+95 2 ' @983 .2 25 82 3
G 32 2 <+25 2B2 2 9 ; 20 ' 82 ' A A0 4 83 2+20
JB 53 ' : ' 23 : ; P 2528. = A 28328 42 B 5.20
#29 ; 2B. 00 : : 9 ' " '1 '8: ' ILA 6 8 ' 2 . :932+ 4:53
+ 4: E253 + '3B +8:5 :9B5 B0 2B380 A ' :B?92B28
; 288 J28 G 8342 ; 25 "?9 'G 25 8 .253 .283 ; 288 J2
9 ; B0 # '55 9 ' ' $9 53 25 B3 &:30 8 ' :3
JB 53 @: 20 2 823 8& + : ; B ' + 'E:32 ! 8 . : ; ; 253
?92 + &254: 283B20 '.B: M '8:B &28< 9+24283B20
. - '333M ' 3 4 8: 3 25. :B2 ?9& ' 8&283: 3 <B4825328
4 &:B2 42 ; 2 4 0 < B ?9:+ + E:+: 3 8:5 <2+ E: B
9B 0 # ' A0 ' 3 52 <:B?9 53 H.2<254 53I
5:M 5028<2. :58 < 8 25 5:M +2 8258 < B +2?92+ 5:M
<9 88:58 9 ; B .283 + EB2 23 .2832 2 ; <B 82 H253B2*
<B 82I0 '3 ' 2 39 +2 E:28 H 29I 42 .92B 82BE B"
+ 3& 42B ' U25 ' 9 ; B &92EB2 H3:5 .29EB2I '
' ' #6 'D # ' ' ! ' < 'N" ' 98 95 G 8 .=2*
E + G 25 :9 ; '82: 3P 828 B2528 E: 3 J23428 89B BK
<:5 42 '8 '82++20 3:5 B ' C 'ILAEV8 ' :9+:58 23 :B4:5*
5:58?92 <:9B .= .952+ 5.2 :9 ; 20 ?9 '8:53 82<3
<2B8:5528 0 5:8 4 38 J258 42 J92BB2 52 <:9BB:53 <B25K
4B2 < B @:9B :5 ; :93:50 #" - ' : .3 '6"F% ' +M
52 < @: 253 5258 23 283: 253 :9 ; 8 42 .2 ?9 ' +29B
283: 3 52.288 B20 .: 9 ' E0 : ' ! + ?9 5 82 < \ 53 ?92
9.95 .=2E + 2B 52 +2 :9 ; 83 6 + '@:9832 H52+9 '<B232
+2 . :++23I0 0 # !# '3 '5 0 ' 36 ' LLAE 6 8 ' + 29+3
3:98@:9B8 %%NG 4 ; 2I :9B5 B 4&:G@2.3 :9 '
0 6 ' ; 2 ; : B2 +29B :9B5 3 ' .=:82 253 2B223 <B2K
82532I0 ' 0 " ' 52 283942 H. G 523I :9 ; 2 42 3:932
8:B32 42 + EB28I " ' 'CQ ' 5 5& ' < 8 +2 32 ; <80 ?9 54
29 25E:R2 + ' 32 ; <2832U 42 .=2B.=2B .2 ? ' 3
; 283 2B0 23 = G2:B2 52<293 :5 < 8 :9B5 B 42 .2?9 '
283 ; + :B4:5540 ' # ' 6CC ' 2@:9B 283 <B48
?92 ; 28 :B.28@4 E 528 2 <?9BB:53 <+98 :9 B ' '4
; :5 3:9B ; 2530 " ; cQ ' E: 3 E 5J3 ; ++2 ?92 ; 9+*
+28 ?92 ; 9+238 3B E ++ 58 < B .= 8.95 @:9B <:9B
:9B5 B 4 828 25J 58 42 G 32B 20 ' @ A ' N
+ 2 3 . :9<<2B +28 BGB28 42 . 42 ; 20 ?9 '25 28K
3: 3 53 29+A :9 ; 2 ?92 <9+ 93B2 < B2 42 <+ 8 5.20
' :9B =9 ; B 4+ '4 88:+93 :5 428 8 2580 + E: 3
G28: 5J42 JB 54 BJ2530 ' ' 7 $92 8:5 . ; <
9B: 3 : 8 ; 3 42 E EB28 ?9& + +9 :9 ; B: 3 42 828
< 80 ; '1# 7 ' C '++ >+:5J2 95 . :9< 4&28<42 9
0. E + 2B ?9 ' 82 3B:9E ' B ; 40 42 8:B32 ?9& ' +9 ' 25
:9B5 3 95 82. :54 9 42 93 42 + ' .9 B 8820 =
20 OO ' +2 80 42 + ' J42+ 52 '25E 2 42 :9BK
5 B 8 ' < : 532 H82 G 33B2 25 . : ; G 3 8 <J9+ 2BI0 + R '
; 'G2 9 8 G+2 253B2 .2 + 29 23 2B .0 + : '-# '1 9 ' 3
?9 53 4 .20 32 :9 ; B:53 42 ; 3 2B2 +28 +:9 5J28
428 4 29A 23 428 =: ; ; 28 E2B3929A0 " '
"0 5 # ! ' '82 <B282538 <:9B 3B:9E2B <B29E28 .253B2
+2 <B 5.2 42 :5440 428?92++2852 53 ; : 58 + 4 8: 3
52 < :9E: B 93B2 ; 253 :9B5 B0 8 5:5 ?92 <B2 ; 2B2*
; 253 + 983 25 + G2B340 # ' C - ! # ' < '%F7 '>2
E:98 25E:R2 22 J253 +=: ; ; 2 <B28253 <:B329B0 <:9B
253254B2 42 E:98 ?92+8 ; :R258 E:98 E2M 42 :9B5 B
<B: ; <32 ; 253 4&=: ; ; 28 J92BB 8 23 B ; 480 <:9B 5K
.:53 5253 +28 25E:R2B 2= .2 + 290 + # '"7 - (" '
1!- " ' ' " ' 5 - ' 4E '6F8:0 < '3: : ' :9B5 B
5 39B2 H ; :9 BI0 < 'D & #(& ' < '7 %0 4 58
' 5 J253 +=: ; ; 2 49 5: ; " 49?92+ @2 :9B*
5 'H?92 @2 5: ; ; 2B I0 8 G28: 5 283: 30 ' # '
<:+ ' "K #!" ' < 'N660 4458 #
- ' (! 25R0 ! #3 G:9BJ9 J 'H: ; P <B:E25^ '
! # ' 23 988 ' !# # ' 7# # ' # # ' B2 ; <+ B0
. : ; <+ B . 3 + '28< ' ' 23 <:B39J ' !#- #3 3 + '
! # ' 23 988 ' #!- # '?9 '283 . 32 23 ?9 '283 ; K
<:B3 53 <:9B &43R ; :+:J 2 G 8*+ 3 ' 7# - 7 '
4 58 95 32A32 <B:E25^ ' 49 AE6 8 4.+20 " '
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' 9 ; :3 7 # 93 42 8:B32 ?92 !7#- # 82B 3
B2:4B204:552B . : ; ; 2 3+2 :9B 4:53:5 3 B2+2 < 5 '
+ R '429A :B ; 280 ! #'23 +2 <B:E25? + ! # ' #)
#3 4 58 .23 4+ 30 + 93 4 ; 233B2 :9 ?92 ; '8&283
.= 5J42 25 - ' :9 ?92 5 8&283 .= 5J42 25 ; ' 2M
4 ; 23 + ' ; 93 3 :5 42 ; ' 25 50 2&283*4*4 B2 B2K
J B42 !# # ' #! # ' . : ; ; 2 +2 E2B 3 G+2 3G= ; 2 23
+:B8+ '42B E 3 :5 82 38 58 <2 52 49J2B ; 5 ?92 '
e. ' = ' ++2 ; ' #7 ; - ' .=2E2B0 <B: .9B2B J:3= '
#7 ' E 53 J2 ++2 ; ' ; :4 ' # ! - ' <B: 32B '
' ; 93 3 :5 42 5 25 ; ' 43 53 988 ' <:88 G+2 ?92
.2+2 42 '?5 5 0 2&283 9 8258 ?9& ' 93 42 ; 542B
5 ; :3 ' < :9B 82 4 3 E2. ' #7 ; - ' +2 8258
383 4 B2. 3 235 39B2+P ' ' !7# + 283 ; 23 <=:B ? 2
230 <:9B . .2<32B 952 ; 23 <G:B2 988 '2 : J5220 :5

9B 3 G28: 5 42 B25. :53B2B 428 2A2 ; <+28 ,
E2. ' +2 8258 : " 422 42 , ' 532BE 253 28 2A2 ; K
<+28 +8 53 42 93 G8:+9 ; 2530 :B J 52 J2B ; 5*
?92 <B254 95 E 53 J2 . :58 42B G+2 2 <+980
. : ; ; 20 4 58 952 23R ; :+:J 20 :5 4: 3325 B . : ; <32
42 3:9328 +28 :B ; 28 B: ; 5280 :5 . : ; <B254 . : ; K
; 253 95 ; :3 J2B ; 5 ?92 8 58 B2+ 3 :5 '<9 .= 5K
J2B 8:5 ; '25 5 P ; 8 :5 52 . : ; <B254 < 8 ?9&95 ; :3
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8:5 50 <:9B <B254B2 ; 2 ; P :5 . : ; <B254 8 58
<2 52 < B+ 'B54 ; 2B 8:5 ?9& ' .N32 42 ' :B ; 2
. :BB2.32I 828: 3 :B ; 2 ' ; 8:5 52 . : ; <B254
< 8 ?92 42 !#-! ' 3 + 25 3 3 ' 28B 8:58
82 ; G 253 442 8 E28 25 E:9B 42 23R ; :+:J 2 J2BK
; 5 ?92
' Q :9B*5 *82* ; 5/0B ' ; 'IL ' .K
3 :5 42 :9B5 B0 42 <B: .9B2B 2 .= 3 49 82+ 89B
+28 ; B 8 <:9B +2 :9 ; 882 ; 253 428 JB25 2B80 C '
' , ' ' ' ' :98 <B: ; 233:58 +2
5: ; GB2 428 E 882 9A 42 J92BB2 542288 B28 <:9B + '
8 B232 23 28. :B32 428 E 882 9A 23 5 B28 .= BJ28
42 82 ' <:9B +2 :9 ; 882 ; 253 428 JB25 2B8" ? '
' , ' = ' " ' , '6, '6N8: ' IL 5 4 3 9@:9B*
4&=9 ' <+93_3 :9B5 39B2 ' IL ' 2B ; 2 42 . : ; ; 2B.2 '
:5480 <<:B3 42 .=2?92 88: . 4 ' IL 2 ?92 95 428
88: . 48 4: 3 ' + ' ; 8820 +:B8 49 < B3 J20 <:9B E: B
@:9 ' 42 + ' .=:82 . : ; ; 952 ' IL .3 :5 4&43 G+B 8 +28
. : ; <328 B28<2.3 8 B:24>2B 9 :9 ; 882 ; 253
- ' # 'S 6 8 ' 5J ; B:92B ' ; :54 58 < 8 B80
5J :9 ; 882 ; 253 '8:9< B8 " < ' #! '
- !75 7B
- ' (! ' !7#- #
! ' Q :9B*5 *829B/0 ' ' N F 2+9+
?9 '253B2<B254 + ' :9B5 39B2 42 ; B.= 54 828 :9 42
.2B3 528 425B228 28 :9 ; 8829B8 428 3B:9<28 52
32+ 283 8:5 :9B5 8829B ' IL J ' $92 +2 52 " :9 +2
E 29A E:98 325320 '82B ' E:3B2 :9B5 8829B ' :G 5
E254 8 '5 422 23 8 ' 3 5320 # ' ? ' . ! - '
IL 6 2B ; 2 42 ; B 52 ' 2 4 3 ?92+?92 : 8 49 82BK
E 53 4: ' J 9.=2 4&952 . B:5 42 IL F ' 2B ; 2 42 :5*
429B ' : ; ' 42 <23 38 B:9+2 9A 42 . B2 ?9 '253B2*
. :9<253 +28 @238 23 428 4E25380 ?9& :5 253:9B2 4&952
25E2+: <<2 42 32BB2 B:9J2 23 42 2532 42 .=2E + 23
?9& :5 8:9 ; 23 9 29 42 <23 328 G .=28 B 5J428 3:93
93:9B 49 ; :42+2 + ' . B2 82 :540 23 + B2832 93 <3
42 <23 38 . 5 9A :B ; 48 < B 25E2+ <<2 ?9 '8&283
49B. 2 ?9& ' R E 3 42 :9 ; 8829B8 2&283 < B +28
:9 ; 8829B8 ?92 +2 ; 43 + 25 98 :5 253B2 4 58 +2
; :9+2
- ' (! ' !7#- # ' < B +2 < B3 . <2 <B_253 !7#) '
- -
' Q :9B*5 *39*BV0 ' ' IL ' B:E 8 :5
:9 ; 2 :9 ' :9B5 B ' 2 ; B.= 54 3 +28 :9 ; *
39B28 42 32 2 ; 8:5 ' 5 < BE 53 ' E: B + ' :9 ; *
39B2 4 8 8238 49 + 80 ?9 '+9 'E + 3 E 5J3 ; +2
+ EB28 42 B25320 'S ' ' E ' IL .3 :5 4& <*
<B:E 8 :552B E25 53 ?92 <9 J92BB2 + R 293 2 ; *
<42=2 ; 253 25 ; 2B ' + 'E: 39B2 428 82+8 <:9B + '
:9B5 39B2 428 JB25 2B8 42 + ' 2B ; 2 ' + '
= ' " ' 49 C@9 5 6NF ' IL J ' 25 5&283 < B3
H< B= '4@ 8 'G 25 '$92 +2 82580 . B .= .95 25 8 '
:9B5 39B20 ?# ' # ' A 'NN 6 2B ; 2 42 . : ; K
; 2B.2 ' 2 ?9& :5 4:5520 .2 ?9& :5 + EB2 ' 52 JB:882
:9B5 39B2 4& BJ253 IL 2 8258 'E 2 +/ ' IL 6 2 ?92
:9 ; 88253 .2B3 58 :9EB@2B80 +28 3 +29B80 +28 3 *
< 88 2B80 25 2 ; <+:R 53 23: 20 + ' ; 3 4B2 <B 5. *
< +2 ' 2 3 < 88 2B ' <B 8 3 53 <:9B ?:5 23 :9 ; *
39B28 ' "6 528 G2BG28 <:9B 88 8:552 ; 2=3 + 5&R
5&R ' < 8 882M 42 :9B5 39B2 4 58 .2332 8 + 42 '
'%6 2B ; 2 4&:BJ 5 832 >29 . : ; <:84 42 <+98 29B28
B 5J8 42 39R 9A ?9 ' 82BE253 'B2 ; <+ B 23 '4:552B
49 E:+9 ; 2 9 8:5 ILN6 2B ; 2 4& 4 ; 5 8B 3 :5 ; *
+3 B2 32B 28 ; +3 B28 ' IL C6 2B ; 2 42 J 53 2B '
! :B.2 9 42 <2 9 <:9B B2 +28 <:9.280 +28 :9B*
.=23328 23 +28 . : 58 428 J 538
- ' 0 A5 6 8 ' +'E:98 :5?928 : ; 2839B20 2
G28: J5 G+2 E2832 .2^ " ' '1 , ' ILAE6 8 '
2 B283: 3 <+98 42 8:5 2 ; <B 82 ?92 + ' :9B5 39B2
428 B ; 28 ' < 4 H2 . : ; G 3 ' < 4I0 : 'IUC '
' E ' '4 ' I) '4 58
- ' (! ' :X ; B0 <B:G G+2 ; 253 < B 5. 25 < BK
3 . <2 !7#- '23 + ' 5 +2 7#
3 ' $ B Q :9B*\ 4/0 6 ' ' 2+2 42 2B :9 42
.9 EB2 <2B242 4 58 8:5 ; + 29 42 429A JB 548 R29A
+:5J 394 5 9A0 E2. ' + ?92+20 4 58 +28 GB 882B 280
:5 44+ R2 + ' B 52
' "" ' ; 593 '42 , + , ' :9 , '5:B*
; 540 , + , ' :9B.=2 25 G: 8 '429A 42538 E2. '
+ ?92+2 :5 B23:9 ; 2 +28 +: 58
6 ' 'Q< #B *@ '0 ' 'IL 6 ; ; ' 4:554
9A 3 J280 29 ++28 23 B . 528 428 <+ 5328 E2B328 4:53
+28 G283 9A 82 5:9B 88253 ' :9BB J2 E2B3 ' :9BB J2
82. ' ' 58 & : .2<3 :5 + ' <+98 J454B +20 :9BB J2

. : ; <B254 3:9328 +28 89G83 5.28 4&:B J 52 E4J43 +2
2 ; <+:R428 ' + '5:9BB 39B2 428 G283 9A ' IL . 528*
:9BB J28 :9 :9BB J28*B . 5280 + ' G2332B E20 + '
. B:3320 +28 .=:9A*B E28 23 .=:9A*5 E2380 +2 5 E230
+2 < 5 80 + ' < : ; 2 42 32BB20 +2 B :B3 23 +2 3: < *
5 ; G:9B ' IL 6 B3+.9+ 4B2 ; 253 ' &=2BG2 ?9& :5
. :9<2 ' B ; 42 <:9B + '5:9BB 39B2 428 .=2E 9A '
28 =: ; ; 28 23 +28 .=2E 9A B2E25 253 4<9 8480
.29A 3:932 : 8 ?9 'B2E2 253P . B .= ?92 ; 289B2
42 82 J+20 .= ?92 3B:9882 42 :9BB J2 5:98 43 253
4 8<93428 # " ' ' . " 'E5 0 3: ' IL ! 233B2 + '
. E +2B 2 25 ?9 B3 28 42 :9BB J20 43 G+B 4 58 95
< R8 :=+2 :9BB J2 G:542 IL & .3 :5 ; 4 ; 2 42
. :9<2B0 4& <<:B32B +2 :9BB J2 ' ++2B 9 :9BB J2
+3B2 . : ; ; 544 42 :9BB J2 ' B4:552B 95 :9BK
B J2 J252B + ' + R E 3 ' = : ; ; 28 9 :9BB J20
8 E ' 6" ' ! '42 9A2 ; G:9BJ0 ++ 53 B2. :55 +3B2 95
:9BB J20 93 E2B3 ' 42 + ' ; B.=2 42 ++R0 ! '
660 6 ' 5 52 <:9E 3 ; 252B ; ' . :5E: ' 5 ' B2
95 :9BB J2 8 58 . : ; G 33B20 # " '0 # 830 42 . " '
E ; 0 6 ' ' J ' E J2 ' 9 B28320 +2 :9BB J2 ?9& +8
:53 3 283 <29 42 . = :820 23 +2 4 8. :9B8 5&R <2B4B '
B 25 :9 <B28?92 B 25P + 5&R ' < 8 25 3:93 + 'E +29B
42 8 A + J528 2 24280 "G ' = '4 3 '
'@9 ++ '6CNC ' 2 4 3 988 ' 428 3B:9<28 . : ; ; 5*
4428 3 53 <:9B B2 +2 :9BB J2 ?92 <:9B +28:9325 B '
28 2552 ; 8 33 ?94B253 +2 :9BB J2 ' IL F6 2B ; 2
4& B3 ++2B 2 ' 50 =2BG2 4:53 :5 82 82B3 <:9B
G:9BB2B +2 . 5:5
- ' # ' O I 8 ' :98 82B:58 3:98 ' G93 50 988 '
G 25 .29+A 42 42=:B8 . : ; ; 2 .29A 42 4242580 5
?92 59+ 52 8& ; 582 9 :9BB J20 ' !75 - '
< ' 7 0 4 58 ' 93 +2 +:5J 82@:9B 42 .2832
J253 428<+ 8 53 .29+A 42 B 80 ?9 '+29B8 E 58 52
<:E: 253 .92 ++ B0 ; 8 <2B4: 253 G+2M0 B9 M 23
:9BB J280 23 3:93 .2 ?9& +M E: 253 =:B8 B 80 H '
" ' -! ' .= '6 7 'ILAE 6 8 ' 28 8:54 B48 =B 2 258
.= BJ2B253 ?92+?928 :9BB J29B8 428 ; ; 58 ?9 '
<:B3: 253 49 :9BB J2 9 . ; <0 $ 'O ' A ' 7 '
293 N 82 J529B G ' '@983 . 2B .B22B :9 . : ; ; 233B2
J258 <:9B +2E2B 23 B2.2<E: B +28 4 8 ; 28 ?9 '+9 ' <*
< B3 255 ; 325 + 82 J529B 20 < B2 +2 ; 253 +28 4B: 38
42 + ' . :9<<2 428 G: 80 2584 ; G+2 42 E 52 < 839B2 23
:9B J20 '!75 ' !7 '/ - # '3 ' 0 < ' "N ' :9BB J2
42 . :B '9A H95 <254 B4I0 9 ' (' E: 3 95
+2EB 2B :B3 ; 2 8 53 ?9 ' 253B: 3 < B3:930 23 52
3B:9E: 3 B 25 3B: < .= 94 52 3B: < <28 53 + 50
.= B0 :9B ; J20 3:93 +9R 283: 3 :9BB J20 "
1!- '3 ' 0 < 0 6 N0 4 58
- 'N (! '0 7## ' ! # ' !7# ' 40-&&" ' , ! - 0.0-&
4:554 !7## # ' 4& : ' !7## / 3 <B:E ' !7# / 3 "(4 '
!## / 3 -%0& ' !# / / ! QE:R ' @
j ' ' ' Q :9*B *@&@0 ' ' 2B ; 2 42 ; K
B 52 :93 . :5 ; J2 2 ; <+:R '25 . :9EB B 95 93B2
' , ' !7## #
c0 c ' Q :9*B *@20 @42/0 " ' "
42 :9BB J2B ' ++4 ' . ; < J52 :9BB J42 < B 428
< B3 8 2552 ; 8
3 ! ' Q :9*B *@2* ; 5/0 ' ' .3 :5
42 :9BB J2B
- ' # ' AE 6 8 ' $9& :5 :832B '3:9328 . :53B G93 :580
:95 J2 ; 253 428 8:+4 38 23 93B28 .= BJ280 "G '
K ' && 'Y B
' ' !7## / #
' Q :9*B *@4 ' 2 / <B ; 4 5 ' 42E 53
' :9 '@2 :9BB J2 80 5:98 :9BB J2:58/ ' IL 6 ' 5 '
++2B 9 :9BB J2 9 43 3 . :53B ; 53 4& ++2B :9BK
B J2B G 25 + : 5 ' ' . E +2B 2 :9BB J2 53 93 89BK
<B 82 23 4 8<2B842 ' IJ J ' 23 ; + 4B2 ; 253 ' &283
95 =: ; ; 2 ?9 'E ' :9BB J2 53 4 58 3:98 +28 + EB280
2&283 ; ' . : ; < + 329B0 :9 2&283 95 <+ J B2 IL 6 '
E J2B ' :9BB J2B 3:93 95 < R8 ' 28 + < 58 :53
:9BB J4 ; :5@ '5 28 J258 4:53 ; :5 J G 2B 9+ '
:9BB J4 + ' B4. :320 > '@ ' :988 'J ' ELL ; + 4B2*
; 253 ' 233B2 25 448:B4B2 ' :9BB J2B 428 < <2B8 '
:520 ?9: ?9& :5 3 3 5343 :9BB J4 5:8 E + 8280 '
' < # ' !A ' / - '
- ' # ' O I 8 ' 3 E 5B253+:J2B 25 95 G2 9 <B40
: + +8 3B:9E2B253 882M ' :9BB J2B <:9B +29B8 .=2K
E 9A0 E 88 ' 0 0 " " ' 3 ++: 253 < B :93B2 + 'B K
E 2B2 42 +29B :34 :9BB J2B0 23 B ; 25: 253 8:9E253
JB 54 <B: 20 " ' ' 0 M ' 'AE 6 ' + E2 3 :9BB J2B
H< ++2BI G:552 < B3 2 42 + 'E ++20 , '30 YA ' + 882B
< 83B B 23 :9BB J2B .28 JB .28 3254B280 ' 428 <2BK
8:5528 54 8.B2328 23 8 ' E:+ J280 _ ' ; 0 N ' +9R
B23B25 .= : 3 E EB28 42 3:98 . :832M0 + +9 ' :83: 3 2 90
+ +2 J B4: 3 42 <:9E: B :9BB8J2B0 ' @ # ' -A '
5 < 88 53 < B +29B < 80 + +2 3:95 J2 ' 23 < # '
. : ; ; 2 32BB28 4&2552 ; 80 " '? / ' %
- ' (! ' !7## / ' X ++:50 4B4 2P G:9BJ9 J 'H:*
/ 3 <B:E25. ' !7## ; # ' !7## / #3 28< J5 'H:B*
& #3 ' !## / /
' Q3:9*B *@4*B ' " ; ' 2B ; 2

E ; ' ' 2 ; 233B2 0 82 <+ .2B' ' 3B 3B2 ?92 39 '28 0
: 3 28*39 4 :52 +N :9BB2B3 7 ! a?5 # ' 5 0' ' +98
42 <+ .2 0 3 : 9342 :B.2 2342 54.288 34P:582 :95 3
:4 :5 <:9E 3 0 : 6 ' N3 0 Z' 2 4 G+2 82 : BB2
< B3:93 42<9 8+:5J32 ; <8 0E:3 '+ '& 'K # '6%' 4E'
, $ ' ' J' ' .=2B.=2 ?92+?92 3B:9 : 82 :9BB2B 0 82
4 3 4 95 G: ; ; 2 ?9' .G2B.G2 ?92+?92 2 ; <+: 0 ?92+
?92 .:54 3 :5' # 283 8' =:5329A' ' 52 8 +3 : 82
:9BB2B 0 :9 ?9 '82 :9BB2B 3 4 58 95 3B:9 42 8:9B 8 0
82 4 3 4 95 G: ; ; 2 <+2 5 42 .:5 98 :5 <:9B ?92+?92
.=:82 ?9 ' ' 4 3 :9 3' L ' J' 53B:49 B2 0 8 25
3B2 ; 233B2' -' 8 283 ; ' 54' ?92 @2' ; 2 :9BB2B 8
43:9 4 ; 253 < B ; ' 3:93 +2 ; :542 0 ' + '
:98 4328 95 8:3 42 E25 B E:98 :9BB2B : E:98
B2M ?92 3 B2 0 ' 44' ; 0 = 0 0 0 28 J258
G 82 :9BB253 < B3:93 0 # ! 3 ' B ; ' 33 E2.'
.28 3 +253823 4 93B28 <+98 . .=28 0 93 +28 '+ ' J + 5
32B 2 0 'H ' 3 J9R:5I 82 :9BB' .=2M ! ; 2 42 2 9K
E 8 0 *8 #' "0 %F ' > E 8 <2 52 ' .:5. + 2B .2332
JB 54 28 B < 2 4 E2.' +2 448 B 23+ B3 ?9 ' E 42
82 :9BB2B < B3:93 0 .=2M +28 JB 548 0 .=2M +28 2 ; 28 0
.=2M +28 44E:38 0 .=2M +28 <= +:8:<=28 0 ' ' 5:988'
:5['O
-'# 'A 5' 8' 2 ; <2B2B28 25E: 98:94 5' <:B
B2 <28 :BB42 0 8+' :.2 4' " ' #! " ' 3' 0
<'FC ' 3'+:B < 52+3:3 +3B28' 83: 253 42 < +2 :B 0
+ '"7' 3B:3' 25 B3 8' +' :BB2 8:9E253 93B28' .:5
8 983 ' 2832 0 @ -' 7"' ' :3 H 2 +28821' 952
.= <2 :BB42 GB 4 23 E2839 8:5' .:B<8 0 @! ' 7F'
'A (6 8' :9BB2B +' < 9 ; 2 J ; B +' ; 5 0 4:552B
42 BJ253>0 #"' " ' #! ' " ' ' 3' 5 0 <' F %'
' AE ' 8' >2 ; 24:932 ?92 .2 52 98+ < 8 :9BB42 :9
< B .B 532 0 ' ' 1&#! - =7 'W:B
" ' <' " ' ?9 58 =:B58 8: G 25 E28398 23
+:BB48 0 3 ?9 '8 .=2 B2 95 <23 3 +2 JB 53 0 5' +R
4 B ' ' 8 B28 0 < 882M E 53 0 :9B 8:5' = G 3 0 23 2 283 .2
?9 ' ; 2 392 0 ' ' O! ' ' ' 2 ' 9
.:582 + ' .= 8.9=8:<< 5 :5P 9 34 253 G 25P ; 38 0
?9 53 E 253 9 82BE B 0 2A2:932B 59 50R ' E 8 :5P
+29B' .:58 9+A 283 42 :9BB42 <2 .2 0 5' ' N" 0 B
42 0 52 ; 6 ' < 8 E2549 S ; :5' ; :3 0 .2 ' 2834 9
8 25 ' 8 82B ' < R4 9 ; 25' 3 +9R 9+3 :B' :5
+2 +9R :9BB2 0 0 - 'L' SE ' 8 3 428 G98 4:53
J+ 82 283 :9BB42 0 >2=' < B+2B: 8 0 ; 8 J B42 +'
G:9BB42 0 6 ' 3 0 %F' : ; ; 2 :5 82 :9BB2 8:9E253
9A 3 G+28 :9E2B328 428 JB 548 0 ' ' F' :9B
B 53 8' 32832 4 58 95 <:294 .:9B 3 0 5' + 0 %
9R R 53 :9BB4 4 58 8:5' + .3 8 0 5' 0 %C' 3
42 <29B ?92 828 =2B28 25' ; :53 53 52 2 88253 GB9 3 0
2+2 + ' D4.=2+2+ .:9EB 3 23 :9BB ' 42 + 52 0 <B2 ; 2B
?92 42 + ' 42E +2B 0 ' 0" ! ' PR ' / ' +9R :9BB '
+2 2B 42 8 ' @ E2+ 52 < B 424 58 + ' E 8 2B2 42 8:5' B
; 23 0 23 +2 39 ' 5' 0V 5 83' "' 3' 428J 5 8:5' 28<42 0
23 82+ ' :9BB ' 8:R ; 28 ; 2 3:93 9 3B E2B8 49 .:B<8 0
'?- !-' 77' ++: 3 8:9E253 :9EB B 23 E 8 32B ; 28
.: B28 0 <:9B E2: B 8' ; ' ; 2B2 R 9B: 3 B 25' :9BB4
42 B 54 82 23 42 89<2B L9 34 0 5' ? B' " ' 5' +28
_ 8: 3 8:9E25 B 49 < 884 <:9B :9BB2B +29B 28<2
B 5.2 42 <29B 0 ' D ' ; 0 %7' 93B28 4 8: 253
?9 95 82B ; 253 :9BB2 8253: 3 5 42+ 34 0 5' 3G' F'
0 283 58 3B 58<2B.2M +28 E 8 J28 < B .:9<8 :9BB2M
Q.: ; ; 2 42 .28 32 ; <8 :5 98: 3 42 .28 ; :38 0 3:98
429A 3: ; G2B253 0 ' > 54B98M: ' :98 +28 9K
329B8 ?9 ' +29 8:53 :9 8.= 8 ; 3 ?928 :9 =2B23
?928 :B ; 2+8 0 :9 + G2B3 58 ?92 @ <<2+2 =2B23 ? 28
; BB48 0 7 '@ & # & ' " '# (& #(& ' <' W "0
4 58
' 5.25 B 5? 8[=8B2 0 ?9 ' 8 J5+ 3
:9BB2 9 0 2GE2+:<<2 QE:R' 6 G3 42 8:B32 ?92
!7## # 283 <B:<B2 ; 253 ' ; B' 4 952 25E2+:<<2 0 4 95
.BB2 9 0 8258 4:53 :5' E: 3 42 G:58 2A2 ; <+28 ' 0= 8
3:B ?92 42 ! 7##7# 3 <9 8 .: ; ; 2 95 7 # ' 9
!7## 7' 283 .B29A 0 [:9BB8B '<B 8 +2 825842 ; 233B2
4 58 0 B2 <4543B2BP 9 B2832 .2 258 52 < B 3
?9 9 AE ' 8+4.+2PG:9BJ9 J [:BB: P<B:E25R [:3B:BP
28< J' !## #3 3 + ' " # # ' 2 ; :3 E 88' 4 58
5.25 B 5. 8 +2 8258 42 :9BB J2B P 98 ; B
.=2 58 528 H52 +28 <:E: 3 8 EB2 0 52 52 <:: 253
+2B :9BB2B 0 ' ' 5' .2 8258 E 253 42
32BB2 0 7## ' ! # ' < +2 0P: .B -' 7## ' E:9+ 3
+ B2 :9BB J2B
' Q :9*B29B/ ' ' ' B.= 54 42 :9B
B9B28
-' ! 'A 5 6 8' 98 ; 83B28 :9BB29B8 23 J ; 8
829B8 52 <923 E: B ?92 429A <B253 M ?9 ' 82BE B:53
. 57 58 ; ' ; : 5M0 & 5' " ' C'
' ?' ! 7## #
' ' Q :9*B 4P B' 52 82 + 2 @ ; 8P 9 <+9
'-#' 8 82 + 2 ' +28 :9*B 4*M 23 +28 82BJ2538/0 8' '
93B2 : 8 0 : .2B ?9 ' 82BE ?9 ' 8:98 95' ; B46
4 428 +:J 8 2 4: 3+ ' :5.3 :5 43 3 42 5 5< 2B
8 +:J2 ; 253 42 .29A ?9 ' 89 E 253 + ' .:9B 'L J'
SE23 3*..9329B :5J2 '?5 'E:3B2 J2 ! +32 .*

.+42538 .=29A 89 E2B3 +2 ; B J2 ' 3 .23 =29
B29A =R ; 25 ?9 ' +28 .= B ; 3 8' :B3 H 28 E 2 + B48
?9 ' 82 ; B 2531 0 2E 253 8:9E253 <:9B 29A 95 :9B
B 2B 42 + ' ; :B3 0 '#, / ' / ' +' L 82 4 3
?92+?92 :8 25 .2 8258 J9B4 9 4 ; 5 5' ' :9B
B 2B2 49 @:9B 0 9B:B2' 5 + ' H 9B:B2 .=2B.= 3
< B3:93 0 9 + 3 49 E 29A 3=:5 0 58 +28 G:8 42
4<= +2 0 9 < + 8 42 ! 2 ; 5:5P 3 0 932 42 3B:9E2B
.2332 G2+2 :9BB 4B2 0 2 @:9B @98?9 ' ; 4' 82 < 88'
8 58 +9 ; 4B2 0 ' ' C ' 0 + ' L ' 9
@:9B4 =9 0 8:98*: .2B .= BJ4 42 <:9BE: B 9 +:J2K
; 253 428 8:+4 38 0 42 B4< B3 B +28 E EB28 0 23. ' 2
:9BB 2B 42 + ' .: ; < J5 2' ' 4 @2.3 E2 ; 253' 2BJ253
:9BB 2B' ! B2.= 428 +:J 8 :9BB 2B' L J' 2
; + 4B2 ; 253 0 283 G:5 :9BB 2B 0 J B42 +2 ; 2 +29B
:9 +2 <+98 JB:8 ; :B.2 9 <:9B +9 025 < B+ 53 42 .2
+: ' ?9 ' 82B3 ' 3 G+2/ ' 5 4 3 42 ; 4 ; 2 ' .2+9 ' ?9'
52 82 B482BE2 B 25P :98 82B 28 ; 9E 8 :9BB 2B'
' 2B ; 2 42 ; B 52' 2 4 3 42 .2+9' ?9' 3B E +2 0
25 8:98*:B4B2 0 9A 4.B39B28 49 82BE .2 23 42 + '
.: ; <3 G+34
-' 'A + ' F' 0' :B 2B H :9BB J29B8 .:9B253<:B
+28 E +28 B:G2B #' ' ' LA ' 8' :5 <:9B
?9 53 :B253 5:8 :9BB 2B8 B2834 42E 53 = 52<:
<+2 23 :9B.+:8 42 +29B J253 ; 2+8 ; 2 0 5' ' 9
' 28 ?929A H.9 8 5 2B81 0 828 G:93 + 2B8H +I <B2832 0
28 :9B 2B8 H.29A ?9 ' :53 8: 5 49 :9BB J2 23 828
< 523 2B8 0 ' ' % CC' LAE ' 8' 28 :9BB 2B8
E: 253 ; :9+3 42 <2 92 25 ?92B 53 E EB28 23 :9 B
J28 <:9B +28 =2E 9A 0 50 50 CN' 2 B:R 0 42K
<9 8 8:5 BB E42 25 .2832 4 32 E +2 42 @:5 0 ' 3
2:583 392B <B 8:55 2B8 3:98 +28 :9BB 2B8 ' ' . 982
?9 0 :53 0 ; 2B.= 54 82 428 +: J 8 23 +28 E254253<:9B
25 B2 +29B <B:9 53 0 ' 1 ' ' ' "08 'B 2 0 3' E 0
<' C LLAE 6 8' 28 = G 3 538 4 8253 ?92 42<9 8
?92+?92 32 ; <8 + ' ; 2B 82 <:9+82 8' :B3 E2B8 29+A 0
?9 +8 :53 <2B49 ?9 3B2 + 2928 42 32BB2 ?828 8 G+28
8:53 828 :9BB 2B8 23 E:R:58 42 JB 5428 ; :53 0 :28
4 B252 ; :9E 532 ?9 ' ; B.=253 4 952 42 ; * 292
42E 53 2+2 23 J J5253 < +8 0 ' EME' :
-' (! ' B:E25?' ' G 8+ 3' , ' 42
, ' :9BB J2 QE:R' @' 2 , ' 43 3
:B J 5 B2 ; 253 .2+9' ?9' ++ 3 :9BB J2B 0 <9 8 .2+9'
?9 ' <:9BE: 3 9A +:J2 ; 2538 0 9A E EB28 0 23.
' Q :9*B 4*B/0 ' ' L ' 3 ; 253 4 58
B BB GB2*.:9B 4 952 JB 542 ; 8:5 : ' :5 B25
2B ; 2 4 E2B828 <B:E 8 :58 0 32+28 ?92 +2 =: 8 0 +2
2G BG:5 0 9*42889 ' 428?92+28 +28 : .2B8 ?9 ' +28
4+83B G9253 :53 +29B +:J2 ; 253' @L 2BE .2 2G BJ4 42
4 83B G 2B 23 42 :9 ; B +28 :G 238 ?92 B25 :B ; 2 '
:9BB 2B2 'L ' 2B ; 2 42 @9B 8<B9425.2' 29 : ' :5
B23 253 428 .G2E 9A 0 E: 39B28 0 23.' ?9' :53 432 8
8 8 @98?9 9 < R2 ; 253 428 4: ; ; J28 0 ; 25428 0 23.'
!233B2 95 .=2E +0 952 E .=2 0 952 E:39B2 25 :9B
B 4B2
-'# 'A 5 8' B2 0 8:2M 25 + ' :B 2B2 H 39
B J2IP G 8:958 42 5:98 82 3B 2 B 2B2P 3 42E 53
E:98 E 254B:58 .:B 53 0 ' ' N":C' LAE ' 8' 552
32B 2 0 28.= 5?:5 0 .9 8 52 0 B9 32B 2 23 :9BB 2B2
H.2B3 5 : .2 4 58+ ' ; 8:5 49 B: 1 0 " ' " '
0 ' ' ' N0 4 58 ' 2+2 283 =:5
32982 3 B5 B ; 32982 0 $9 0 42 59 3 0 < B =9 8 42
44BB 2B2 0 2 82B ' < 8 3B:< E:BJ:J52 82 2 89 EB2
.: ; < J5 2 =:532982 S ?92+?92 E +23 42 :9BB 2B2 0
' ' ' ' ' , ' <' C%0 4 58 ' "
' AE ' 8' $92 59 52 E: 82 H +2I 8: 2B H.:9<2BI 52
<B254B2 G2BG2 28 G: 8 52 28 :B 2B28 H 39B J28 I
4 93B9 0 :983' ' 3 0 <' F ' ! 233B2 25 :9B 2B2 0
" # ! 2 ' ' , ' *
-' (!'-, ' < +2 0 :9BB J2P < . B4 23 5:B
; 54 0[:B34B2 0 + 8 4B2 4 95 .= ; < .9+3 E4P 2BBR 0
, ' B 32+ 2B 4 43 G+2 :=' :? ; 23 +2 :9BB J2
3 ' Q :9*B9*B/0 ' ' L ' 2 9 42 .2BK
3 58 5 ; 9A 0 <+98 :5' ; : 58 <B'. 2982 0 ; 95 2 42
8:5' <:+ 23 <B4< BG2 0 4:53 :5' J ; 3 +28 EG32 ; 2538
<:9B 82 J B 53 B 49 B: 4' ' :9BB9B2 428 . 83:B8
G+ 5.8 283 283 ; 42 ' . 982 42 8 ' B B23S 0 23 +28 < B
32 ; 253 5: B8 8:53 <B28?92 @88' B B28 ?92 +28
G+ 5.8 0 ' J, ' 3 ' 0 < ' A ' 4 58 "
28 B 5? 8 .:583B9 8 B253 25' A M' ' J B 0 95
:B3 :=' 8 BBG3 253 +28 :9BB9B28 0 ?9 0 58 .23 G3
G+ 882 ; 253 0 9B 253 434 <:B3G28 ' 8X2J:0 '
' "1 ' AE 0 M' E B 2A3258 :5 0 25 < B+ 53
4:82 9A' +8 H+28 2 42B8I 52 ?9 33253 <: 53 +2 . ; 3
J+ . +0 4:53 +29B :9BB9B2 4< 882 +29B <2B ; 23 42
GB E2B + B J929B 0 ' C ' %' E5 0 <' M' L 0 :G2
J ; 2 42 :9BB9B28' :9BB9B2 4 95 4: .329B 0 4 95
<B28 4253' 28 44<9348 H+ < 58I 3:3:9 ; GB253 4 B2 '
.9B8 BGB28 ?92 23 43B 5J2B <2 .= 3I 0 8' EG5GB G+2
< B 8' ; @28392982 :9 ; B2 0 N3 3 95 <= +:8:<=2 0
3 A330< %3 :82 254:9 ++2332 0 25 :9BB9B2 0 .'
.253B2 + ' ! 49B2 0 253 ; B B ; ' 4:9A 8:93 25 0
0 ' ! *++ B 3 0 S3258 : 0 + ' <2B8:552 ; :52

?9' <:B32 + 'B:G2 42 :9BB9B2' 3B 32 +28 :9BB9B28
H<B28 42538I 42 G:9BJ2:8 2 0 +0 ' 1 ' L ' 2B ; 2
42 G+ 8:5' 2 9A E2+928 ?9 ' 253B253 4 58 +28 B ; :
B 28P 'R 25' '429A 0 G2B ; 52 23 +2 E B' LL" ' 2B ; 2
42 ; 259 82B 2' B 5J+28 42 G: 8 82BE 53 ' <<9R2B
+2 + ; GB 8 0 ' B2 ; <+ B 95 E 42 0 23.' L ! :B.2 9 42
G: 8 ; 5.2 ?9' 82B3 ' . +2B +28 < G.28 42 .= B<2:32
' 2B ; 2 42 ; B 52' ! :B.2 9A 42 E 2 +2 3: +2 :9
42 E 29A .:B4 J28 82BE 53 ' B2 ; <+ B +28 E 428 0 '
J B 53 B 49 B:332 ; 253 +28 .:B4 J28' L :B5 4:55G
' .2B3 528 J B5 39B28 42 G: 8 3254B28 <<+ ?9G28
9A E2BJ928 0 9A ; 8 0 9A G 3328 0 9A G.9
G 2B8 0 23.' LN' ! :B.2 9 :9 < 2.2 9882 582BG2 4 58
?92+?92 :9EB J2 5.25' L C' RB ; 42 42 .= 9
4B: 8 ?9' 253B253+28 9584 58 +28 93B28' L :9 B28
4 =2BG28 ?92 +28 G283 9A + 88253 4 58 +28 <B28
< B.2 ?9 +8 R 3B:9E253 428 <+ 5328 ?9' +29B BG<9
J5253
-' 'A ; 8' ; 2 5 283 < 8 42 <2.=G ; :542'
$9' ' 8' .B 52 5: B2 :9 G+:542 2+:5.' 5 39B2 0 $9'
' ; 23 8 2532532 23 8' .9B2 S @:9832B 952 :9BB29B2
9 +:52 428 3B2.28' - 1 ,7' ' 5' C F 0 ' C 0
4 58 ' LAE ' 8' 2B:98 B ; 2M H<:9B 95 3:9B
5: 8 < B 5:8 .:9838 .: ; ; 2 5:98 <+ B 0 23 9
B:58 3 BJ2 8 58 .:9E2B39B2 52 :9BB9B2 42 2B 52
4 . 2B 0 ' 0 .=' 8 0 <' C 0 4 58 '
' O I 8' 2B:53 32598 +28 : . 2B8 42 5:8 E +28 42
B2 E 8 32B +284 38 J:38 23 + J528 0 ?9 54 +8
E 254B:53 ' E2532 0 <:9B 8? E: B 8 R ' :9BB9B2 :9
93B2 932 0 23 <B:.242B 89B +28 42+ 5?9 58 < B +28
<2 528 ' , ' 3 0 3 0 <' F "
' ' - , ' <B:E' , ' 5.' 28< J5'
' ' , ' , ' .: ; ; 2 :5 E: 3 < B 0= 83:
B ?92 0 283 <B:<B2 ; 253 .2 ?9' 25E2+:<<2 0 23 0 25 82
< B3.9+ B 8 53 0 + ' <2 9 E2+9:' 4:53 25' J ; 3 +28
EG32 ; 2538
b ! ' Q :9B*E: * ; 5/0 ' ' .3 :5
42 82 :9BE:R2B 0 42 8 2J B2B' L J' BB29B 0 ; G
<B 82' 283 3: ; GG 4 58 95 G3B 5J2 :9BE: 2
; 253
-'# ' S 6 8' 2B:2B.G 53 .2+9R' 82 J529B 42
9B.2 0 49 3B E 23 :9BE:R2 ; 253 H4G3:9BI ?9
E: 3 0G 3 0 283B2 E259 42 ! 53:92 @98?928 . 0 =
'= , '$$$' <' 0 4 58 ' 93 53 25 2 3
h# <<: ; G528 + 88 5 3 3: ; G2B +28 <: ; ; 28 4 2B 25
.: B 53 E2.' 3 + 532I 0 '8:5 <: 5.3 0 23 42 + ' 8.
.:542 23 42 + ' 3 2B.2P @98?928 ' .2 ?92 0 < B :9BK
E:R2 ; 253 23 4 E2B3 882 ; 253 0 H 4E 53 J2 ' ' + ' .:9B82
+9R 42 ; 29B 0 ' 5 0 7"
' ' (!' - , / 4 ' 5.25 :5? 8 4 8 3
988' +2 , / '
' (00 ' Q :9B*E:* 5 0 :9 :9B
E: * 5 0 5*3 /0 *?' $9' :9BE: 2 0 ?9' GJ 'B2' :B.2
; 9B +28 3:9 ; :R 5328 0 3 :B.2 B:9328 :9BE:R 5
328 0 ' H ' E
-' ' AE 6' B E2M E:98 28<B 3 8' .+2B
E:R 53 $92 59 4283:9B 0 3 53 8: :9BR:R 53 0
:8 < 8 .2B3 58 <:9BB: 3 3B: ; <2B ' 5:' $'
0 B2.3:
R 0 ' Q :9B*E:* G 0 G2 0 :9 :9B*E:* G 0
G2/0 < B3 0 ' $9' 8 283 3B: ; <G 4 7 .=2 ; 5'
:9BE:RG < B 42 ; 9E 828 54 . 3 :58' L J' $92
+2 . 2 9 G28: 5 0' 2G 58 25E:RG :9B B24B2882B
' 3:98 E:3B2 28<B 3 :9BE:RG 0 ' 9 ' +0 +
(' Q :9B*E:* GP <+98 29B8 4 8253 :9B
E: * G/0 @2' :9BE:R 8 0 5:98 :9BE:R :58 0 E:98 :9B
E:R 2MP ? 2 @2' :9BE: 2 0 ?92 :98 :9BE:R :58 0 ?926
E:98 :9BE:R 2MP '82 .= 5J2 25 3 0 42E 53 2 ; 923'
@2' :9BE: 2 0 @2' :9BE: 2B 0 9' ' L ' B2 <2B4B:
+2 EB ' .=2 ; 5' 2 J9 42 5:9 ' ' :9BE:RG8 ' J'
28 ; 9E 8 2A2 ; <+28 :53 :9BE:RG L J' ! 23K
3B2 25 42 93' >2 E 8 0 4 95 829 . :9<42 G J92332 0
254:B ; B + ' E J + 5.2 0 GE2 +2B ; :9B 0 2J B2B +'
@ +:98 2 0 :9BE:R2B 53B J92 0 / ' ' 1' '
G:' 0 N @L ' 2 :9BE:R2B 0 :' 6 ' 2B4B2 +2 EB '
.=2 ; 5' ! 8 0 G3 53+2 GB:9 + 8 HGB:9 + B4I 8' G< 8 0
?9 ' 5 G3 3 < 8 <:88 G+2 9' ' .29A ?9' <:B3 253 +28
2582 J528 42 E: B +2 .=2 ; 5 0 5' 9A 8:+4 38 4:' E: B
+28 2582 J528 0 +852' 8 253 ?92 82 :9BE:R2B 0 428
8 58 8 E: .B3 :4 +8 ++ 253 0 .: ; ; 2 J258 GJ BG8 42
59 3 0 3:9 ; 253 54 3 GB2 ; ; 253< B3:93:G +8 G3 253
<<2+G8 0 ' +2 AAA +6 / ' ' 9' = / ' .= <' C' 2
+:9<'B25.:53B2 95 4:J92 988' <9 88 53 ?92 G2 9'
B 8 <: 0 ?9 ' 8 G3 3 :9BE:RG < B ; GJ B42 0 '
- 1 ' 0 %' 2 29 B2 5<+ 3 828 :9 ; 2 9A 2 429A
8:B328 42 . BB2 9A ' 95 @ ; 8 52 82 :9BE: 2P 3
:283 .2+9 ' ?92 3:9 @:9B8 +R5 <2 25 .:B<8 5:98 25
: 2 0 " ' 3: ' E 0 'hH 2B ; 2 42 EG52B 2' G. B
32B 42 + ' E: 2 23 .:9B B 95 93B2 2GB ' ?92 .2+9' 42
+ ' ; 2932 '>L E2.' 2+ <82 49 <B:5: ; ' <2B8:552+ ' B2
:9BE:R2B ?92+?9 5 0 G3B2 . 982 ?9 ' 82 :9BE: 2'
5 J' +98 :5 89 3828 < 88 :58 0 <+98 :5 82 :9BE: 2'
H 28 4 G9AI 52 82 <29EX 3 : BE:R2B 428:=:828 @9

AM

b:53' < B 32 ; 253' G:5528' ' 9 ' 1 '
" '# +, ' E 0' ' LL B3 .9+ 2B2 ; 253' + ' 82' 4 3' 428'
; '<B 828' JB:88 GB28' 23' 9329B' 8283' JB 542 ; 253'
:9BE:R4
- ' ! ' 4J5 2B' ' 2 ; <+:R4' 5293B +2 ; 253' >2'
52' ; 4 ; 2980' 5:5' <+980' ?9 54' +29B' 4 8::9B8' :9B*
E:R20' $92' 495' .:532 ' @ ' ME ' ! :53 J52' 25'
98 3' 58 0' :R' B= 83:B ?92
* ' (' ' E:(0' 8 ' 2' :9BE:R2B'
.283'82'3B: ; <2B' 42' .=2 ; 50' 25' <B254B2' 95' 93B2' ?92'
.2+9 ?92' :5' E 3' 42882 5' 4289 EB2 ' 4J B2B' .283'
52' <+98' B2.:55 3B2' 8:5' .=2 ; 50' 43B2' 4 58' 95' .=2K
; 5' ?92' 5:5*829+2 ; 253' :5' 52' E:9+ 3' < 8' <B254B20'
; 8' ?92' :5' 52' .:55 3' < 8' 23' 4:53' :5' 52' 8 +382'
3 B2B' 5' 82' :9BE:R 53' :5' <293' 84J B2B' :9' 5:5*
; 8' 3:9328'+28' : 8' ?92' :5' 84J B20' :5' 8283' :9B*
4 <F ' ' Y 'b".
- ' ' S 6 8 ' 2' + ' 8 < 25.2' 52' 5:8' 2++ 2E230' \2'
+ ' 2532542 ; 25M 52' :BE: 23' \ ' 89G3 + ; 253' .92B3'
H.:9B310'>:G0' < ' " " ' 2' ; +3 +253 9' 2B 82BB J 28*
+ 52' 82' E25J20' @\' 82B ' :BE: 480' < , ' ' F " '
' A5 6 8 ' B' +2' < 8' ; :+3' H +8' 82' :BE: 253' #: ; 28'
23' 2 ; 28' ; + ; 25: 2530' = ' ' A ' 53:8 ; 2'
5:98' E ' 9E:R 530' 83' + ' G280' 82 J5:B0' 8 58' ++20'
E: 3' 2B' . ' E ++ 53' ; ++20' ' " ' ! 8'
<:B.2' ?92' 25' E: 3?92' ; 53' 29+A' H428' B4B28 ; *
529B8' 82' :BE: 2530' 28' :53' =9 ' ; 58' ' .92B' 9*
.958' ' + 52' 8:+: 2530' 3' <:BB: 3' 25.:B2' 283B2' ?92' 82'
; 28' 5 283: 2530' $9 + B: 2538: B2320' 8 + 52' 8 9 ; *
+ : 2530' > 'V ' ' 9 ' # CC ' LL A EW 8 ' B' ?9 53'
95' .92B' 8 283' :BE:R480' 283' < 8' 42' +2J 2B' B E: 480'
(0' 4 58' A ' 3' 0' < ' VF' L@AE6' 8 ' ' =4'
82' :: : 2' < 8' ?9 ' 4' G:5' ; 832+' E 0' ' '
O ! 8U' O / ' 3 ' 50' < ' ' S 6 8' 28' :< 5 :58' :53'
:B4 5 B2 ; 253' 93 53' 4 2 4. .2' +28' 9528' ?92' +28' 9*
3B28' 4' B2' :9BE:R2B' +28' =: ; ; 28' 42' + ' 4B: 332' B K
8:50' ! (0' # ' " ' B' 952' :++ 2' 42' E 52' ; K
G 3 :5' + 8 283: 3' :BE:R4' 23' 25' E: 3' ++R' + ' 4B: 32
E:R20' ' ! ' C" ' $9 54' :28:<= J2' 2a3' E255' 4'
'+ ' ?9 3B 2 ; 2' E2B32GB ' 49' ; 23 <=B2520' + 82' :9BE:R4
E2B8' +2' .:832' 4B: 30' <:9B' 4:552B' + 29' 4' + ' JB 542' B*
32B2' 5: ; ; 22' :B3 0' < 40' 50' ' :8' .:5820' +8' :9B*
E:R2530' < B.2' ?9 +8' 5 :53' < 8' 4 4B2882' 23' 42' G930'
9: ' 0' 7 ' 5.:B28' +28' E29J+28' 42 ; 54253' 9='
J9 42* 5:98' 5:98' :9BE:R:58' 42' 5:98' ; 28 ; 280' U
0' " N
- ' ' 2BBR0' [=B93.B* <B:E25^0' / ' '
/ ' 49+ 3' ' =:B80' 23' W3:0' E: 2' P' ++2B' =:B8' 42'
+ ' E: 2
3+ Q :9*3 /0' ' ' 5' 428' 5: ; 8' <B:E 5**
. 9A' 49' =43B2
- ' # ' S 6 8 ' 28' :B 280' B28528'0' :9832 9A0'
2B G+280' : ' ' ' "F
- ' (! ' ; 593 ' 42' , ' =43B2' QE:R6' ' " /0'
+2?92+' 4 ; 593 ' B4<:54' 4' 95' 4 ; 593 ' + 3 5' '
, ' 44B E4' 42' , ' =43B2
' Q :9*32*+4/0' ' ' 29' <+ 534' 42' :9*
32 9A
- ' (! ' 0 , , ' :9' , ' 23' + ' 5 +2' + 3 52'
, ' ?9 ' 54+?92' G:54 5.2' 4 BGB28
j' E2: ' Q :*E2*:*+4*B6/0' 9 0' '
Q :*E4*:*+20' +22/0' :4R6 2B ; 8' 4 = 83: B2' 5 39B2++4'
:53' + ' 89<2B . 2' 28 ' .B29842' 42' <23 328' :8823328'
52J +28
- ' ' ; 593 ' 49' + 3 5' / ' :8820'
3' ' Q :*E \/0' ' ' 9G83 5.2 2 ; <+:R42' 4 58'
+ ' 32 539B2 3' 4 58' +28' + 29A' : ' + 5 R' ' <: 53' 42
9 ; .' E2.' 49' B24:9+0' :9' :E .0' ?9 ' 8:53' 428' 4B:K
J928' ?9 ' .B: 88253' 25<+98 29B8' <B:E 5.28' 42' B 5.20'
23' ?9 ' E +253' +2' 89 ; .0' $ ' ' " , ' ' ,
' ' "F ; B8' "NC"0' B3') 3' +2' B24:9+' 23
+2' :E .' 43 53' 428' 29 ++28' 42' <23 38' BGB 882 9A0' ?9 '
52' 82' .9+3 E253' < 80' 3G' B3' N
3' (' Q :* B/0' ' ' 5' 428' 5: ; 8' E9+J B28'
49' =43B2
' 5' +2' 3 B2' ' , ' 95' 428' 5: ; 8' 49' =43B2'
QE:R ' ' / ' :9B3 53 :9++ 50' B2 ; B?9 53?9 :54 3'
988' , ' <2582' ?92' 4 ' E 253' 42' ,
(' Q :* P 4 93B28' 4 8253' : *+"P' B' 52' 82' + 2'
@ ; 8P 9' <+9B 2+0' ' 82' + 2' ' 428' :* 2*M' B42538/0'
' ' + 6' 29' 4 58' +28' < 4.28' 4 952' ; 8:5' : ' :5'
3' + ' 29' ' .254B2' 49' :R2B' 5' 4.:93 93' 3:58' .28'
38' 4 ; B =+28' 58' 8:5' .=432 9' <B48' 4 95' + BJ2'
:R2B0' 9 ' ' +, ' " ' , 7 ' $92' 4 4228'
53 ?928' 23' 3:9.= 5328' 8 33 .=253' 6' 5:3B2' 829+' ; :3'
42' :R2B ' ' 2 ' 8 ' HS ! :8.:9I' 9*
295' ! :8.:E 32' 52' 82' <B282532* 9.952' 9 ; 42' 49'
; : 54B2' :R2B' 52' 8 4+2E2* :5' 5 253254' < 8' +2' <+98'
4J2B' GB9 3' 8:B3 B42.2332' ; ; 2582' 23<:<9+2982. 340'
2 29 0' ' " ' . " ' E ; 0' " 0' LL J' 23' ' 4B2*
; 253' ; 2B' ' J B428' 8:5' :R2B0' ; 2B' ' ; 252B' 552'
E 2' B23 B42' 23' 3B 5?9 ++2' LL 6' B' 2A3258 :50' +2' 2 '
; 4 ; 2' ?9 ' GB +2' 4 58' +2' :R2B ' 5' :R2B' G 25 8 53

< B' 828' 8: 58' ++9 ; 4' 2523B 3' 4 58 ; :5' .:29B+2532*
; 253B ; 40 B 452h: 5050' ' LL J' ; 2B0'
8253 B0' .283' 4' .2332' EB2882' E 5342' $9 9' 24+28328'
:R2B8' 44B:G ' B: ; 43=220' ' 6 ' ' 5>L' B' 2AK
3258 :50' 95' 29' ++9 ; 4' < B' + ' 5 39B2R' *95' E:+. 5 '
:98' 5:' <:9E:58' 4:932B' ?92' + ' 5 39B2' 5 :<4B2' +28'
; 4 ; 28' 2 238' E2.' G 25' <+98' 42' <9 88 5.2' 4 58' .28'
:R2B8' ; ; 25828' ++9 ; 48' 42<9 8' 5: ; GB2' 42' 8 4*
.+280' ' > 35 ' 3 ' ; 0' < ' F 0' 4 58' 7 ' LL 6 '
< B3 2' : ' 82' ; 23' +2' 29' 4 58' .2B3 58' << B2 8 ' 2'
:R2B' 4 95' :9 ; 2 9 ' 8' :R2B0' :R2B' :40' 4 58'
5 J20' + ' :532' 283' B2 :5492' E2.' 49' .= BG:5 '
' B 54' :R2B0' < B3 2' 49' :9 ; 2 9' 42<9 8' +2' E253B2'
@98?9 9' :R2B' nL' 2' E 42' ?9 ' 283' 3' 4 58' 95' < 4+2
<:9B' R' 44<:82B' +2' .: ; G983 G+2' LL 2' 4 3' 49' :9B*
52 9' 4 952' < <2' ' /L' 2B ; 2' 42' ; B2.= 2B 2' 29' *
+9 ; 4' 89B' 952' :BJ2' LL 2B ; 2' 42' ; B 52' 29' ?9 :5'
++9 ; 2' + ' 59 3' 89B' ?92+?98' = 9329B' <:9B' 82BE B' 42'
J9 42' 9A' E 882 9' LL" ' B' 88 ; + 3 :5' 9' 29' ?9 '
GB ++2' 9' :R2B ' 290' <: 53' 4 : ' + ' +9 ; 4B2' :9' + '
.= +29BB R:552' :R2B' 42+9 ; 4B2' ' :5' 4: 3' B2.:5K
5 3B2' 429A' 8:B328' 42' .= +29B0' 952' +9 ; 52982' 4:53'
+2' 8:+2 + 283' +2' :R2B' ; ; 25820' 23' 93B2' :G8.9B2'
4:53' +2' JB 54' B282BE: B' 283' +2' J+:G2' 32BB283B20' > '
K ' - ' - # ! " ' " 66 < B3 ' 1<75 ' 3 ' E 0' < ' " " ' LL J'
' < ' ' 8:5' :R2B' =:B8' 42' 5:980' ' H - '
0' 90' ' ' N ' J' 2' 8 J20' +2' .253B2 ' 2332' E ++2'
283' +2' :R2B' 428' +9 ; GB28' 2++ 2B' <B 3' + ' E: 2' + '
<+98' 8 B20' 25' B2<BG8253 53' 9' B: ' .2332' ; 8:5'
.: ; ; 2' +2' :R2B' 49' @ 58G5 8 ; 2' 23' 42' 28<B 35 ' 9*
G+ . 50' (' . / - ' " ' + ! 7 ' ' <75 ' 3 ' E0'
< ' " 0' 4 58' ' N6' 2B ; 2' 42' <=R8 :+:J 2'
:R2B' <2B.2<3 0' 254B: 3' 49' .2BE2 9' : ' 82' :53' +28'
<2B.2<3 :58' <<:B3G28' < B' .2B3 58' 52B 8 ' LL 2B ; 2' 42'
< 3=:+:J . ' :R2B' 4 952' ; + 4 20' +2' 8 GJ2' <B 5. < + 42'
.2332' ; + 4 2' 4' :R2B' 42' 89<<9B 3 :50' < ' 2' 4 58+ *
?92++2' 952' .:++2.3 :5' <9B9+2532' 82' :B ; 2' LL 2' :R2B'
4 952' ; + 4 2' .:53 J 29820' +2' + 29' : ' 2++2' 82E 3'
E2.' +2' <+98' 4 53258 3G0' 23' = 2++2' B R:552' 23' 82' .: ; K
; 95 ?92' ' C6 J ' ! 8:5' Q+ ' < B3 2' G3 53' <B 82'
<:9B' +2' 3:93/' + ' <<:B3G +2' 3B:9G+20' +2' 4G8=:5529B' \'
; :5' :R2B' :93' A' =29B29A' 3B:9E 3' ' 2' \' +29B'
:R2B0' 4 B' : ' :5' E 3' 8 58' +9A2' 5' 283' =:8< 3 K
++2B0' ' ' 6 ' H# (=7 ' 50' ' <<BG. 2B' + ' ; 9+*
3 39 +2' 428' @ ; 538' 42' .:53 .3' < B' +28?92G' +28' K
5 5.28' <9G ?928 332 J5253' .=2?92' ; ++2P .2' ?9 '
+29B' 3' 3B:9E2B' 428' @ 9J28' 4 58' .+ ?92' :R2B0' ;
0' K ' 1 " ' - # ' 0' < ' "% ' LL 9' < 9*
B 2+0' 42 ; 29B20' < R8' $9 8' 3B2 ; G+253 \' +29B' 3:9B' <:9B'
+29B ' <B:<B28' :R2B.0 ' K &# ' " ' 2<3B2B4 58'
828' :R2B8' HB23:9 ; 2B4 58 ' < 3B 2@0' ' 4 58'
' 5' 4 3 ?3 25' 828' :R2B8' 7' B2.92 ++ 3' 5:8'
BGB280' (5.98' 23' <B 8:55 2B8' 0' 0' < ('
' F6 2B ; 2' 42' 3=G\3 2' + ' 8 ++2 .: ; ; 952' : ; 8' K
B 882 ; G+253' +28' .3:9B8* :5' 4 8 3' 93B2 : 8' .= 9 *
: B' 2' :R2B' 428' .329B8' ! ' GJ9 2B' ' 4 3' 25'
<+2 5' :R2B' ?9 +8' E 253' +9' + ' < 2.20' 23' ?9 +8'
5 R' E 253' B 25' 3B:9E2' 42' BG<BG=258 G+20' " 6 ! '
' + ' 4' ! # ' N ; ' "CN ' LL ' 8 +8'
.: ; ; 952' := ' 82' <B: ; 5253' +28' ; 2.3 e B8' <25K
4 53' +28' 253B .328' NN I' 2B ; 2' 42' <=R8 ?92' 2'
<: 5342' A24 95' ; B: B' .:5. E2' :9' 4 952' +253 ++2'
G .:5E2A2' : ' 82' BG95 88253' 23' 8 253B2*:B: 8253' +28'
B R:58' +9 ; 529A' :9' . :B3?928' <B\8' + ' B2 +2A :5'
23' + ' BG B .3 :5 ' 2BB28' +253 .9+ B280' ?33' B 882 ; K
G+253' 3:58' +28' B R:58' \' +29B' :R2B0' 9 ' ' Q ' 50'
F ' ' 95' .:9B3' :R2B0' 82' 4 3' ?9 54' +2' :R2B' ' 3'
<+ .G' <BG8' 42' + ' +:9<2' 54 8?92 2' 325 8' + ' GB 5*
.G2' 4 952' ; 50' @2' 325 8' 42' e 3B2' ; +:9<2'
4 95' 882M .:9B3' :R2B0' ' & #5 ' C0' - ('
' 2' 3 53' 42' <:9.280' 42' < 248' 42' :R2B0' 82' 4 3' <:9B'
2A<B ; 2B' + ' 4 83 5.2' ?9 ' G< B2' 49' ; B: B0' 42' + '
+253 ++20' +2' :R2B ' :5' ; +3B2' E 3' 428' G 88 58' 42'
2B0' 4 58' +28?92+8' ' <:+ 88 3' 882M G 25' 428' E2BB28'
428 A < 248' 42' :R2B0' ' K # ! & # LL :R2B'
<=:3:JG5 ?9\:9' .= ; ; ?920' + 29' 4 83 5.3' 49' :R2B'
:<3 ?92' 23' +2' <+98' <B:<B2' \' + ' <B:49.3 :5' 428' 2<B29*
E28<=:3:J25 ?928' LL 2B ; 2' 42' JG: ; G3B 2 ' 2' :R2B'
4 952' 2++ <820' 4 952' =R<2BG:+20' 4 + ; 2' < G:+20' +2'
<: 53' :9' +28' <: 538' :9' 82' BG95 88253' 23' 4 :4' ; *
3253' +28' B R:58' E2.329B8' 2++ <82' ' 429A' :R2B8' 4:53'
+ <B:<B 2322832' 32++2' ?92' + ' 8: ; ; 2' 428' B R:58' E2.K
329B8' BG95 8' \' ; ; G ; 2' <: 53' 42' + ' .:9BG2' :B ; 2'
952' +:5J929B' .:583 ; ; 253' GJ +2 9' JB 54' A2' 2'
8:+2 + 43 53' 9' :R2B' 428' :BG28' <+ 523 B280' + 283'
5 39B2+' 42' n2' 89<<:828' < B2 ++2 ; 253' 9' :R2B' 428'
:BG28' 428' . : ; G3280' ' <B ' ' %' @L' ++2'
?9 :5' ; 23' 5' 42E 53' 4 952' .=2 ; 542' <:9B' 84< B2B'
+2' <+ 5.=2B' 42' 33B2' LL 2B ; 2' 42' ; 259 82B 2' _3'
?9 ' 253:9B2' \3B20' 23' 4 ' 8' +2?92+' +28' 29 ++28' 42' < BK
?923' E 255253' ' 882 ; 2B0' LL 6' < 8' 4:53' :5'
B2.:9EB2' + ' 4 ++2' 4 32' :R2B ' :R2B8' ; :?92332'
6' =2 ' 42' 32+ 2B' 4 952' :BJ2' 3 + 58

' 6 ' J8 ' 28' 283923' H + 52' 93' < 8' +28' < B'
<2.= 4' 4 ' + ' 32BB2' 28+9 J5 2B* 932' +9B' <25 325.2' 2*
B953' +2M +9B' 9 2B0' 9 ' ' ' NF' @LA 56' 8 ' + 9'
<B 82' + ' .= B' ?92 ' $2@' ' 22+' :9 2B ' ' & '
E50' 7 ! J8 ' > :8:58+2' . 80' .: ; ; 2' + <293 4*
E25 B0' ?92' +2' ; 282532B2' 8: 3' *+2' :R2B' 42' + ' 2EB20'
"% ' ' " F0' D 5' =: ; ; 2' 8 58' :9R2B' E 3' 3:98@:9B8'
25' 8:9.R[*+8R2
- ' ' 2BBR0' ' , 6 ' <B:E25^0' , '
, , ' 5. ' 28< J' , ' G 8*+ 3 [G. B39 ; 0'
44B E4' 49' + 3 5' *, ' :R2B' QE:R ' @
' Q B \/0' ' ' # G 3' 4 =: ; ; 2' ?9 ' 82' G:9*
3:552' 89B' + ' <: 3B 52' 23' 82' 32B ; 52' 25' 429A' +:5J928'
G 8?928' >2' 8:B3 8' +2' ; 3 5' 25' B .0' <:9B' ; 2' < :*
; 252B' 4 58' +28' B9 5280' ' 3 ' ' > , / '
3 ' ! ' < ' "N0' 4 58' ' + 52' 82B 3' < 8' 8 J2' 42'
E:9+: B' 89G83 392B' +2' B .' 5: B' 9A' G9B5:98* + 52'
283' < 8' 4 E 53 J2' 42' J:9E2 ; 2B' 428' G28' .: ; ; 2'
428' B 5. 80' +2' 529E 4 ; 2' 8 4.+2' .: ; ; 2' +2' 4 A*
529E G ; 20' ' , " ' ' " , ' , ' 3 &
< '
' ++2 ; ' #!(6
' Q B *\ \P' 882' + 2' ' 95' B *\ *M 4<:9E 5*
3 G+2/0' ' ' ' 6' 9<39B2' :9' B .39B2' E :+2532' 23'
GB9R 532' 28' G: ; G28' :53' 3' 95' JB 54' B . 8 4 58'
+ ' E ++2' " <253' 8 283' 253B :9E2B30' ' 3' 95' JB 54'
B . 80' 3' 4 58' +28' 2 9A49' GB2' 283' 3: ; G4' 8:58828'
< 80' ' @ 5! ' ' 6 ' LL J' 58' ?9 54' E:98'
E:R2M < 882B' .: ; ; 2' 25' 95' 583 53' 42E 53' E:8R29A0'
@2' 52' 4 8' < 8' +28' B: 8' 23' +28' 2 ; <2B29B80' ; 8' +28'
JB 548' 2 ; < B28' ?9 ' :53' 3' 3B2 ; G+2B' 3:93' 95 E2B8*
?9 54' E:98' E:R2M +28' 88RB 258' 5. 258' 23' 5:9E2 9A0'
+28' ! 44280' +28' 2B8280' +28' B2.80' +28' 2 ; 58' 82' <B2K
82532B' 42E 53' E:98' 89.2288 E2 ; 253' 23' 3: ; G2B0' <:9B'
58' 4 B20' +28' 958' 89B' +28' 93B280' .2' B . 8' 2 3B: ' G+2'
E:98' 3' 8253 B' ?90' + 5 R' ' B 25' 42' 8: 42' < B ; ' +28'
=: ; ; 280' 23' ?92' 5.:583 5.2' "% J 3 3 :5' 8:53' +2'
<B:<B2' < B3 J2' 428' .G:828' G9 ; 528' ' @ 0
' 2' B . 8' 428' 4E452 ; 2538' ?9 0' 42' 4 A' 58' 25' 4 A'
580' E B 53' + ' 8.G52' 49' ; :542' 23' ?9 ' B' ; 253<9 8*
8 ; ; 253' +28' <B 5.28' 42' 9B:<2' <:9B' 42' <23 38' 5*
34B4380' ' = ' < * , ' M5:E' AM ' LL ' B9 3'
82 ; G+ G+2' \' .2+9 ' 4 952' .=:82' L ' GB 82* JB 54'
GB9 3' E2.' JB 54' GB9 3' 23' JB 54' B . 8' 5' 3: B2 3'
3 ; 5G 3' 428' ; :53 J5280' ' - 1 ' / ' ' $92'
8' GB9 30' ?92' +2' .=:.0' ?92' +2' B . 8' 428' B ; 28' 2*
3253 882' 42' 3:9328' < B380' C ' 4 ; 980' ' M
5' GB9 3' 42' + ' 32 ; <4320' 9' B . 8' 428' 3:BB2538' :'
" " ' (# ' 50' ' 8' 3 B4B253' ; +0' + ' 283' EB 0'
; 8' 42' 8 ' <B480' ?92' + ' B ; 420' +28' 29A' 23' +2' B . 8'
42' 3 53' 42' .:9<8' 4<:9E 534B253' +28' .=2E 9A' 5)'
32 ; G2BJ2: 8' 23' +28' B25E2B84B293' <4+2* ; 4+20' 7 '
K ' " ' . " ' 5 ' ' LL 5' 4 3' ?9 95' :B.G283B2' 3'
49' B . 8' :B8?9 + 52' <B:49 3' ?9 95' GB9 3' 8 58'
2 23' ' 6' :93' .2' ?9 ' : +B2' 39 ; 9+380' 448: 4B2'
E2.' GB9 3' 3' 42' 8:5' JB 54' B . 8' 89B< 25 53' 8*
82 ; G+420' 58' +2' <+98' G2+' 254B: 3' ' + ' < 4.2' 3B:9*
G+420' ' 4.=2X80' 0' ' :93' .2' B . 80' 232 ; *
G BB 8' ! 2' <482' < B' 3B:<' 89B' +28' GB 80' ; ' D ! 7# / '
/ - & ' E0' - # ' " ' 2' B 3' 4 G:B4' 253B2' 5:98' 99'
B . 8' 42' ?9283 :58' 89B' B 8' 23' 89B' 49280' !'
&#0>))' - # ' ' B . 8' 49' ; :5420' J 3 3 :5'
42' + ' E 2' 49' ; :542' 2' 3:9BG ++:5' ?9 :5' <<2++2' '
; :542' 83' 8 ' B4E:+20' 25' 3 53' 4 2BB29B8' G:5420'
$9 + 5 283' <2B ; 8' 4 25' ; 2B' +2' B . 8' $9 \' 4*
3:9B4 ' ?9 ' 52' +2' .:55 3' < 80' 9 ' 0 ' 1 9 ' :5'
49' GB ++ 53' B . 8' 4 95' ; :542' ; G 3 29A0' : ; 4'
4 58' ; 28' <B:@2380' 8 58' 448 B80' 8 58' 25E 20' #(7# '
' ; 7 - ' "A)0' < ' " " ' ' 5' 4 3' 4 58' 95' 8258' 5 +:J920'
+2' B . 8' 428' E ++28' 2' B . 8' 428' E +28' 5 283' 3'
?92' <:9B' 29A' ?9 ' 52' <29E253' 8 :..9<2B0' 9 ' 23'
A ' ' A- - ' " ' .:3' "CNC' LL B8' 49' B . 80'
.B 2B' G 25' = 930' 82' <+ 54B2' = 938 ; 253' H#' B432 4'
?9 :5' +2' 84< B2' H42' 8 ' 2 ; ; 2I' 23' 3' G 25' 49' B K
. 80' +0' ' 1 ! - # ' LL " ' 5' 82' 4 30' 4 58' +28' .: ; <:*
; 3 :58' + 334 B280' 23' 89 3:93' 4 58' 28' < \.28' 42'
3=4\3B20' 42.8' ?9 ' B <<2' B:B2 ++2* 23' 28<B 3 .: ; ; 2'
3' +2' B . 8' 2' <9G+ .' E293' 428' .:9<8' 42' 3G4\3B2'
5.B:R G+280' 42' JB 548' 3' 49' B . 80' 9 ' ='
& ' ' ; B8' "CNN ' 293*43B2' ?92' << B2 +'
42' + ' 8.\520' +2' B . 8' 42' 3=4\3B2' ?9 ' B4J52' 4 58' .23'
:9EB J20' +28' B4+2842' .4B<50' 42' 3 + 5 0' 42' 48 B0'
<:9BB:53' B <<2B' <254 53' ?92+?928' B2<B28253 3 :580'
5 ' 3G' " ' @9 ' 6CN" ' 1 ' ++28' = _<2 B20' E2.'
3:932' 8 ' G BG 52' 23' 8:5' B 4 .9+20' ' 428' 3B 38' 8'
5 8' 23' 8 ' EB 80' 23' 95' B . 8' 4 .3 :5' a' ; <:8 530'
?9 ' 3:98' +28' B 8:552 ; 2538' 42' 2BB2' :B52 ++2' :53
' + ' J+ .2' 25' .: ; < B 8:5' 49' 3B J ?92' 42' .2' +280'
' = ' # , ' ^' 2E' "C " ' LL 2B ; 2' 42' <2 539B2'
! 9+3 3942' 23' .:5 98 :5' 4 :G@238' ?9 ' B <<253' 23' B *
' 2 5 3' + ' E52' ' <:9B' :<<:84' 8 +25.2' @L N' B9 3'
?9 :5' 3' 4 58' +2' ; :542' 3' +9 * ; 4 ; 2' R 53' 93'
JB 54' B . 80' .=\B2' + 20'] ! 8' G2 9.:9<' 25' <+ 8 5

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

B B' ; : 58' ?9l:5' 52' 42EB 3' LL J' B2' 428' 2 :B38'
<:9B' B2988 B0 <:9B' <+ B2' 2' ; 233B2' 25' B 8' 4l ; *
: +340 42' <B4E25 9.280 42' 3: +23320 23.' LL J' 5'
3B2' <:9B' 828' B 80 5:' < 8' :G325 B' .2' <:9B' ?9: ' :5'
B 3' 3' 428' E 52280 428' 42 ; B.=28' LL 9B' 5:9*
E2 9A' B 80 25' .:58 4'B 53' 3:93' .2' ?9l:5' E *
3' .: ; ;2' 59+0 42' 5:9E2 90 42B2.G2 ' ' 5*
.952' 52' 82' 3' < 8' <B 2B' 429A' : 8' <:9B' B2' 3B: *
8 G ; 20 23' 82' ; 3' 6' G: B2' 89B' 5:9E2 9A' B 80
F ' .! ' (! ' 0 N' 9B' 5:9E2 9A' B 8' 33B *
<: '5:8' <:9A0 4' B ' H / ' F ' H4 58' 3R8'
42' $9 5 9+3I' 95' 8: ; ;2 *' 23' 428' 8:5J28' 4:53' l 5*
E253 :5' 89B<B254P *' 8R ; <=:5 2' 283' 3:932' 42'
G 8828' 23' 42' 3:58' 8' 88:9< 88 538' ?9l:5' 4 ; B2'
<3 832' 89B' 5:9E2 9A' B 80 8 3E' $ ' 30 ?9 54'
<B>8' 25' E: B' G 25' < B+2' H42' ! ; 2' 42' B J5 5I0
5:98' 5:98' 4'3:9 ; ;58' 95' ; : ; 2530 @2' B2<B2548' + '
< B:+2' 4l95' G:5' 3:50 23 @2' +9 '14 8' ' ! 8' 4 8:58' 4:52'
95' < 9EB2' ; :3' 89B' ; ' ++2 ' *428898' 5:98' B2*
.: ; ;25?:58' 89B' 5:9E2 9A' B 80 8cE' " ' >2' E:98'
25' B2 ; 2B. 2' 89B' 5:9E2 9A' B 80 ; ' 28' >l2.B 8' 89B'
5:9E2 9A' B 80 '0 " ' 0 C' 'E:8' 8:5J28' 52'
<:9E 253' < 8' B2.2E: B' ?92+?92' 532B<B23 3 :50 :5'
E:98' 8 3' 4:B ; B' 4 58' +2' 32 ; <+2' 89B' 5:9E2 9A'
B 80 ' # ' 0 8' LL 58l+2' + 5J J2' 428'
:9EB 2B80 B2' 428' B 80 . 982B' 95' 4 J 3' 5' :9EB :B'
?9 ' <:82' 952' J+ .2' 4 3' B25:58' J B42' 42' B2' 428'
B 80 :l283* *4 B2042' . 882B' + ' J+ .2' LL 0 2B ; 2' 42'
<B 3 ?92' 2G:9B8 8' 23' 2 ; :+9 ; 2538' ..:B4' 8' < B' 3 *
B 8' 9A' : . 2B8' ; 5 83' B 2+8' :54 ; 52B' 9A' B 8'
' B 8' 23' ; 828' 4l2A' .93 :50 B 8' ?9l95' .B4 5. 2B'
283' :G+ J2' 42' B2' <:9B' ; 233B2' '2A2.93 :5' 8:5' + 3B2'
' B 8' 23' +:R 9A' .: 380 B 8' 38' <:9B' + ' < 88 *
3 :5' 4l95' .32' 23' <:9B' +28' 89 328' 4J 3 ; 28' LL 9A'
B 80 42<25828' ?9 ' 5l253B253' < 8' 25' 3 A2' @L 58'
+2' + 5J J2' J252B +0 9A' B 80 3:9328' +28' ; 25928'
44<25828' ?9 ' ..: ; < J5253' 952' 4 <2582' <B 5: < +2'
:3B2' E:R J2' E:98' .: 32B ' 8 A' .2538' B 5. 80 8 58'
.: ; <32B' +28' 9A' B 8' : + ' 25' E 5.2' 952' G:9B82'
42' ; ++2' +:9 8' <:9B' +28' 9A' B 8' 42'E:8' 5:.280 "G !'
0 <(! ' " ' !7#/' +0 3: ' LL 0 2' 4 30 ' .2BK
3 58' @29 0 32+8' ?92' +2' G ++ B40 + ' < 9 ; 20 23.' 42' + '
44<2582' ?9l:5' F 3' >:92B' +28' B 8' >l '<2B49' +28'
B 8' ' ' B 8' 42' < 8820 82' 4 30 9' .B2<80 4l952'
.2B3 52' 8: ; ; 2' ?92' +2' @:929B' ?9 ' < '2' <+98 29B8'
.:9<8' 4: 3' < R2B' 9' ; B?929B
- ' ! ' 5' 4 3' 9AE ; 6' 8 2.+20 B2' +28' B 8' 42'
<2582B0 <:9B' 82' 4:552B' + ' <2 52' 42' <2582B' :+3 B2'
82' ; :?92' E2.' B 8:5' 42' .2332' +:. 93 :5' ' :98' + B2M
4 58' 5:8' + EB28' 5:9E2 9A' 42' <= +:8:<= 2' ?9l *' 52'
93' < 8' B2' ' <9B2<2B32' +28' B 8' 42' <25 2B0 '
& ' + - / 7
- ' # 0 A ; 6' 8' 5' .2832' ; 5+2B2' 82' <:3' *' ; 23B2'
=: 8' 42' +2' H+ I' 2: ; < J5 2' 23' 428' B28' 42' + ' .: ;]'
; 9520 " ' ' M ' <BG8' 4: 3' 283B2' 232' +2' H+ I'
8: ; ; 2' 428' 428<2582823' 42' 3:9328' ; 5 2B28' 42' B280
23' 42' < 2 ; 258 ' Q '3 ' 3' 258 ?9:B3' H.:9B3I'
3:98' + ' B28' 8:B' +2' .: ; ; 95' 428' <:EB280 5' 30 3: '
' A E6' F' $9 ' 3:B3' E:2+3' B2' 935 0 3:98' +28' B 8'
< 2B' 4: 3' D 7" ' " @ ' E50 B)M' :93' 93' 25' B +3
23' 428<2582' 433 B R0 16#! - ' ' " K - / ' 4 58' :'
' 8' 8 2BJ 580 <:9B' B 3' ?9l *' 29B253' 4:5.'
<:9B' +29B' 8 2+28' B << B ++ 2B' 23' <:9B' +29B' GB 4280
- *:' ? ' " ' F ' <')' l2589 E253' '
B 3' ?92' + E ++2' 2980 5' $' B+R498' 882+*
58' 23' 24BR0 ?9 ' 283' + 80 258: 253' 3:93' 4 28 3B R*
D6D :58' 3' + 29B' 8P # 8' 25' +2' H+ I' 5' 82B:53' < ++23'
l' 48 +29+' +29B' B 80 D7/7 ' 1 ' E ' 3 % ' ' 9' +2'
H+ I' .: 9B' 82BE 2' 42' 3:98' G 258' + BJ92 ; 253P 28' B2M
< ' 24B 80 8R 33l25' J:983 ' 5:R2530 ' E ' N3
- ' (! ' / +2' 3 B2' 49' G 8*+ 3 5' # "7 ' ?9 0 8 *
J5 53' ; 2542' <:9B' E: B' 3B:9G+2' + ' < A0 ' <9'
<B254B2' +2' 8258' J454B +42' 44G:9B8280 23' ?9 ' E 253' 42'
l 5. 25' G 93* ++2 ; 54' # " 7' + ' < AP 5J+:*8 A'
&3' 4 5: 80 # " ' # " 7 ' ' <9' 3BG8*G 25' 4:552B'
9' B2J ; 2' 8 5J9+ 2B' # 3' ; 8' :5' 3B:9E2' 4 58'
433 5J2' # (7 ' # 7 ' E2.' +2' 8258' 42' 44<25*
8280 ?9 0 +9 ' 988 0 4:552B 3 # ' .: ; ; 2' # ('
E 3' 4:554' # ' GB .=2P 25' .2' 8258' +2' # ' 283
0+2' 4: ; ; J20 23' 42E 2530 < B' 952' 8B 58 ; :5' 5 39*
B2+20 + 4 <25824283 5 2' ' +2' B < B2B' 2' ?9 ' 4 .42
+ ' ?9283 :5' 25' E29B' 42' # 7 ' 2l283' ?92' +2' 8258'
25' 283' <B . 8' 4 58' +2' G 8*+ 3 50 3 54 8' ?9l 9.3 ; ' 532B*
; 4 B2' 52' 5:98' B2<:B38' ' # "7 ' 4:530 :B J 52+2*
; 2530 +2' 8258' 283' 93B2' # 7 ' 283' +2' + 3 5' # (7 '
< B3 . <2' < 88 ' 42' # - / # ' GB 828' D. *8 ' @
" ' Q B *M0/08' ' LL T B9 349' B 8 2B' LL B 82'
25' JB <<280 5: ; ' 4:55 < B : 8' 9' B9 3' 42' l BG:9*
8 2B' / 6' B' 2A3258 :50 3 .=2' 5 39B2+2' ?9 ' 2.32'
+ ' :B ; 2' 4l952' B 82' ' ' 952' B 82' ' + ' @:92
- ' #3 ' A5 6' 8' 5 58' ?9 ' .92 +2M +28' +:B2328' 3'
+28' B2828' B28.=28' 23' 523280 ' .! ' NC% ' B2828'
8253' . 9428' 23' ; : 8328' 32 ; <B2 ; 2530

0 %N' S 6' 8' 'G:93:58' B:5480 25 ; 5 2B2' 42' B2*
M28' 4l:B0 82 ; 2M 42' <23 3M 8 <G B8' 23' G + R882 9A0
89B' .= .95' 952' JB:882' <2B+20 58' '> , '
<' " C ' S 6' 8' l952' B2M2' 429A' ; :B.2 9A0 7 '
< * ' 3' 0 <' C
b - ' (! ' e ++:50 / , ' + 3 5' , ' B 820
< B' l 532B ; 4 B2' 4l95' 3R<2
3' ' ' Q B *Ml/0 ' ' 23' 3' :93 *' <:9B' E *
82B' 0253B' 2' 4l95' 3B:9' <2B. ' 4 58' 49' ; 9*' :9' 4 58'
49' G: 80 4 3 988' B 82' LL + ?92' :B3' ; 5.2' <:9B'
254B2' +28' B:928' 428' ; :53B28' 23' 428' <2549+28'
' ; 2' B:542' 4l=:B+:J2B' LL :92' 4253' 2' ' 9B' .: *
<2B' +28' ; 3 9A' 23' ; ; 2' +28' G: 8
- ' (! ' 293* 3B2' 58' ' 4 3' < B' .: ; < B 8:5' 42'
:B ; 2' E2.' 952'
P ' ' Q B *Ml/0 ' ' 2B ; 2' 42' G:9.=2B 2' 2'
; 8253 B2' 49' E2 90 42' l J52' 9' # 5J2B' 42' + '
B 82
- ' # ' S 6' 8' 5' l 93B2' <+ 3' + ' B 82' 42' .=2*
EB2 9+A0 A ' 0 "
- ' (! ' e ++:50 '5 ; 9B' 7 ' # 5 930
' <B:E25^0 ' G 8*+ 3' ' B+J 52'
5. :5592P *' 283' 4 ; 2' <2B ; 8' 42' 2:5@2.39B2B' :9B*
B 3*:5' +2' B <<B:.=2B' 49' G 8*+ 3 5' * , ' ?9 '
8 J5 ' B 5J20 23' 89<<:82' 952' :B ; 2' * ' 42'
; ; 2' 8258^ +:B8' + ' ' 82B' 3' 4 32' 58' < B' 8K
8 ; + 3 :5' E2.' 952' B 5J2
" ' ' Q B *Ml/0 ' ' ' 36 :B32' 42' .:+234:9G+2'
23' ' J:4B:58' ?9l:5' <:B3' 3' 9' 82 M ; 2' 8 2.+2' 23' 9'
.: ; ; 25.2 ; 253' 49' 4 A*82<3 ; 2' ' E 3' 952' B 82
E2.' 95' .= <2 9' <: 5390 ' 2 ' ' ! *
J5 B4' 9B 3 <2 53 +28 .:9B3' 8 58' E2.' 428' B 8' 8' 23'
428' .: +238 ; :53 80 ' 3' AA0 <' F ' = + << 2' 4l B*
+ 58' H+2' B J253> 82' <+ 8 3 ?92+?92 : 8' ' ; 233+2'
952' B 820 23' 2l23 3' + :B8' #25B' ' 2 ; G2+ 0 '
= , ' U3 ' ' J ' > ; 8' .+:.G2B' 52' 8l283' 3B:9E '
5E2.' 952' 32+2' B 82' H G +983B 4210 8 E' " " '
' 6' 2B ; 2' 42' .= 882' ' :B ; 2' 428' < 2BB9B28' 42' + '
3 32' 4l95' .2B 0 HL 6' ' B 82' 49' 4 54:50 + ' .= B'
B:9J2' ?9 ' +9 ' <254' 8:98' +2' G22' ' B 82' 49' 4 54:5'
?9 ' 8l25 +2' 23' B:9J 3' 4 58' .2B3 58' ; : ; 2538' 4l *3
; :9B' 9' 42' .:+ B20 ' C ' 3' A ; 0 <' "N"0 4 58'
7 ' * " ' 2B ; 2' 4 ' :B3 . 3 :50 3B ' 42' + '
.: ; < B 8 5' E2.' + ' B 820 .:+2B2332' + 88 428'
<3' 53 28' 4 58' +2' 3 +98' 2A3' B 29B' 49' < B <23' 23' 5.+*
5 28' ' =:B M:5' ; B' +28' 254B: 38' B3 G+28' E2.'
428 B 8280 " ' @ .:B:@04 58 + 0 9'
; :3 ' L0N6' 25=2' 42' .:583B9.3 :50 29A' 9*
3:9B' 428' < +28' 428' <:538' <:9B' 82BE B' 42' .:53B2*J B42'
' 6' ' AE 6' 8' *' R' ' <B 8 + ' + :8 < E2B8' 3 ' 42' B:*6
3:5428' ' 4:9G+2' B 5J 42' 42532 +20 :9' G 25' B 828' '
.:5 98 :50 / ' - ' 0
- ' (! ' $ 283' <B:G G+ ' ?92' 2l283' H2' ; ; 2' ; :30
< B' 88 ; + 3 :5' 42' :B ; 20 ?92' ' ' ' ?9 '
3254' ' .:5 B ; 2B' .2332' 3R ; :+:J 20 2l283' ?920 9' AE6
8+ . 20 +2' E2BG2 283' ' QE:R ' , ' " 0 ' l= 8*
3 ; ?92/0 .:5 :B ; 2' ' 49' A E60 B 82' 42' E2 9'
5' ' B <<B:.= ' 49' G 8*+ 3 5' , ' 28< J5:*
' " ' 3 + 25' ' ?9 ' E29+253' 4 B2' B 5J20
23' :5' l ' 3 B2' 49' + 3 5' " 4 , ' :9EB J2' 42' /UB: 2*
B 20 <B:<B2' ; 253' :9EB J2' <=BRJ 25P 89 E 53' 2M0 .28'
; :380 E:9+ 53' 4 B2' <B:<B2' ; 253' .2' ?9 ' 2a3' G:92+ 0
3255253' 9' J2B ; 5 ' 2' B 8:50 ' B 8 P J+ 80
7 ' ! 8' l 88 ; + 3 :5' 42' ' E2.'
' 49' 55? 8' 283' 3B' 8*4:932982P :' 3 53' 4 58'
+2' B 5? 8' ' ' 23' l2' 4 58' +28' 93B28
%' F , #* ' Q B2*M 0 M 2/0 < B30 " ' 42' B *
82B' " ' 6' B5' 4l952' B 820 4l952' .:+2B2332'
l=: ; ; 2' 52' 82' <+ 3' < 8' 4l 3B2' 3:9@:9B8' B 8' 0 :
- ! * , ' # ' 3 ' ' 6' B5' 42' < + 88' 428' 25' B 82'
= ' G 83 :5' B '
' 0 ' h B *M 0 M 2/0 " " ' 42' B *
82B' ' 32' B 8 2' LL = 9A' B 8 20 2G 9A' ?9l:5' '
G9 ; 2.3 2' 4l95' <29' 4l2' 9' @98?9l 9' <: 53' 4l25' < : 9*
B: B' :B ; 2B' 428' <2+:328' 4 58' + ' ; 5' 8' 58' ?9l2+2'
8lR 33' .=2P 2+2' 82B3' 4 G8' + 8 E:552B 2
3' ! ' Q B * *; 5/0 ' ' 2B ; 2' 42' :BK
3 . 3 :5' 3 3' 4l952' :B3' . 3 :5' J ; 2' 4l952' B 82
- ' ? ' -
" ' ' Q B *M /0 ' ' 6' + 882B' 25' :B ; 2'
42' B 82' B 82B' 428' ; 5.=23328' B 82B' 49' < <2B'
' ' 2B ; 2' 42' :B3' . 3 :5' ' ; B95' G 83 :5' 4l952'
B5 82' B 82B' 95' .=2 ; 5' .:5E2B3' LL 93B2 : 8 B K
82B' 95' G 3 ++:50 .l 3 3 +2' G:B42B' 42' < ?9 2B8' <:9B'
+2' ; 233B2' ' : :9E2B3' 42' + ' . E +2B 2
- ' # ' S 6' F' 52' J:BJ2' G+ .=2' 230 B M 20
< ' <' C0 4 58' 8' ' B 5.0 B 80 B 82'
.: ; ; 2' 95' ; J5:50 ' <' ' * (' #2G:548' .: ; ; ; 2'
G2+28' ; .=280 3' B RM" .: ; ; 2' G2 9+A' ; J5:580
0 ' ' / ' ' A B " ' LL AE ' 8' ' 82' <2 *
J520 82' B 820 82' ; B20 23' 8l J25.2' +2' <+98' 8: J529*
82 ; 253' ?9l ; :9B' +9 ' <:9E23' 2582 J52B0 &9 '
<' %NC' $9 54' 95' ?9 ' 52' 8 +3 B 25' ?92' B 82B' a

.=2 ; 82' B ' ?92' 39' 5l28' < 8' 4 J92' ?92' :5' 32' 820
' <' N%
- ' (! ' # ' " ' 2' <B:E25? *' # B # ' #)'
B # ' 23' l 3 + 25' # / # ' 4 + B253' 49' B55? 8' 25' .2'
?92' 95' ' l ' 23' +28' 93B28' + lW
0 ' Q B *M /0 E' ' ' 8 2 B' + ' < 320 + '
< 3B B' E2.' +28' <: 5J8' 42' 4B: 32' ' J 9.=2P .:53B2*
B 82B0 2l283' + ' < 3B B' 25' 8258' :<<:8 ' LL 5' 3B:9E2
988' B 82B
- ' # ' S E6' 8' 9 8 2B' +28' 2E28' 4 58' +2' <:3'
+28' 28.:B.=2B' 23' B 82B' 25' +29B' .= +29B0 A" - / #'
5 0%
- ' (! ' 3' # 7 ' < B30 < 88 ' 42' # - " # '
GB 82B
3' F* ' h B *M U0 ') ' 2B.2B' 49' ; 3 *' :9'
49' G: 80 ' l 42' 42' l 583B9 ; 253' <<2+ ' B 82'
' E 82B' 25' 2452' B25E2B8 ' :B +22' 4l95' 3B:9' 4 88'
+2?92+' ; 2' E 8' 4: 3' 3B2' 58 B 2' b
' ' # '
bH ' Q B *M2*B /0 ' ' : ; ' E9 J B2' 49'
B 8 2B' 83 B +2' :9' ! - ' # / # ' " ' 9329B8
- ' (! ' -
+ ' Q B *M * /0 ' ' LL 6' 2 32' B 82'
28' = : ; ; 28' <:B3 253' 93B2 : 8' 428' B 823328' 9'
+ 29' 42' ; 5 ' 233 80 ?9 54' +8' 3 253' 25' JB 54'
429 +0 ' " ' 8? " " ' LL 6' : ; ' E9 J B2' 23'
; B.= 54' 42' + ' " 7 & " ' (- ' Q.:?9 28' 95 K
E +E28/0 ?9 ' 283' +2' 39BG:' " 7 & - ' 42' .2B3 58' 9K
329B80 $ "
- ' # ' !J 80 2' 89<<+ 53' <B 53' 95' 29+:3' 5: ; 5 '
G:9B82' G:93:55 2' 42' B 823328' 4?B 280 " ' '
B 7
- ' (! ' ; 593 ' 42' # ' "
' Q B *M+ P B' 52' 82' + 2' @ ; 8P 9' <+9*
B 2+0 l8' 82' + 2' ' 428' B *M+ *M 25' +29B8/0 ' ' + 532'
42' + ' 95 ++2' 428' B:8 . 280 ' +29B8 G+ 5.=28' 23' ?9 '
<B:49 3' +28' B 828' ' 5' R 4 83 5J92' <+98@29B8' 28*
< .2 ' "6[0B4J B3 ' 5 ' + ' B+ 3 8' B 8 2B' 428'
G: 8' 9' 428' <280 B 8 2B' <2B< 392+0 B 8 2B' B28*
8 53P 6' B 8 2B' . <2B: ; 2B0 # / # ' !# '
GB= P 6' B 8 2B' 428' .: 5280 :9' B 8 2B' =B28 9*
J92' :9' B 8 2B' 2B ?92+ 50 # / # ' .: 5 0 =B= P
" ' B 8 2B' 49' = + 0 # / # ' &A - ' =B= ' *
B 3 ' ' B 8 2B' 5 5 80 ' JB:8' B9 3' LL B 8 2B' 25'
BGB20 l BG:98 2B
' ' - ' " P X ++:50 A ' / ' <B:E'
3' + ' Q B *M+ *Bl/0 ' ' 2BB 5' <+ 532' V2
B 8 2B8
- ' (! ' # #
' Q B2*M P 9282<B:5:5.2' @ ; 8/0 ' '
' 6' : ; ? 2' +28' 82BB9B 2B8' 23' 93B28' B3 8 58' 25' 2B'
4:55253' "' + ' .254B2' 49' .= BG:5' 42' 32BB2' ?9 ' 42*
; 29B2' 4 58' + ' :BJ2' LL 6' 58' +2' 2BBR0 <:988 B2'
:9' ; 25928' < B.2+28' 42' .= BG:5' B283 53' 89B' +28'
<+ .28' " ' :9 ; 2' 9' 4 58' +28' :B 38
' ! ' l <B 8' . 4 ; 20 +2' B 8 *' 283' + ' .25K
4B2' 49' 2G BG:5' 42' 32BB2' 4 58' 952' :BJ2P :B' .2' 42BK
5 2B' 8258' 4 58' 5:3 .2' < R8' H+2' 2 ' I' .+ 88 ?92' <:9B'
54983B 2' ; 23 ++9BJ ?92' 49' ; : 580 8l <<+ ?92' 2A*
.+98 E2 ; 253' 33A' # A ' ' H !
- ' (! 0 2BBR0 [8 +0 :B J 52' 5. :5592' 5' <253'
<:9B3 53' ' B <<B:.=2B' 49' G 8*+ 3' * , ' ?9 '
8 J5 3' ; : 3 5' " ' <: EB20 23' R' E: B' 95' 4 BE ' 42'
' B: ; <B2
j ' ' Q B *M: B/0 ' ' :B32' 42' E +2GB2?9 5'
?9 ' 2B3' 9A' :9EB 2B8' 25' ; B?9232B 2
3' ' H B *8l/0 ' ; * 5' 428' 5: ; 8' E9+J 28'
49' B 52' 5' 4 3' 988' B .=20
' ' 3' # B - ' B 52
@ ' Q B * I9*Bl/0 ' ' 2B ; 2' 4l B ; 9B 0#
B29A' 42 ; * .R+ 54B ?92' <B 3 ?9 ' 4 58' +2' G 8 23'
; ' <29' 9*4288:98' 42' + ' +9 ; B2
D(! ' - ' "
b' # ' Q B 5*G2*M * /0 8' ; ' 2B ; 2' 42'
< 3G:+:J 2' + 4 2' ; B .32B 822' < B' 428' 39 ; 29 '
82 ; G+ G+280 <:9B' + ' :B ; 20 ' 428' .= ; < J5:580 " 428'
; B28' :5' " ' 428' B ; G: 828
- ' (! ' - 1
' Q B 5*G: *Ml/0 ' [' 2' B9 3' 49' B ; *
G: 8 2B D
- ' ' A968' ' 49A' 52' <B 82' 952' B ; G: 82'
$9 53' ?9l *' 25' 4 3' 52' ?9l ' 25' 5: 82' H 882' 49' GB9 3I'
c ' FN " + A(' ?92+2' :429B' 5. :B<:*
B 2' E2.' +2' E 0 *' R25' B254 ; ' 42+ . 3' 23' < ?9 530
E2.' JB2' G+2' B ; G: 82' H B: ; 2I0 : ' " ' ' " '
28' G:58' J:9B ; 238' 3 83 58' 49' G:5' E 5' 4 8253' ?9l *'
8253' + ' B899G: 820 !# =7> ' +2' E29+253' G 93' +:52B0
52' 8l @E 8 58' < 8' 3:932 : 8' ?920 8' 95' 5' 8253: 3'
8 ' B ; G: 820 5' 5lR ' ' .2+9R' ? 3' 25' E:9+983' G: B2'
8 ; 253P < B' ?9:R *' 93' 549G 3 G+2 ; 253' 4 B20
4l95' G:5' E 5' J l *' 8253' 8:5' B 5.' G: B20 :l283' "' 4 B2'

[illegible]

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[illegible]

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328<9/ + ' B25E: ' ' 3 H+ ' +2 42 ! ' 49 ! 52 ?5 54 2+2 B ; < :B395 30 23 +9 ' < B+ 3 2A3B' ; 2 ; 253 B 5* 20 #' 38 :0 N ' LL " ' ' + ' B 5 820 ' + ' ; * 5 'B2 428 B 5. 8' + G ++2B " + + B 5Q 82' ' 0 B 25 42 8' B 4 .9+2 ?92 3 + 25 .= 532 ' + ' B 5* 820 8' .2 5283 <293*43B2 +2 B 5. 8 .= 532 ' 3 + 25520 ' 9 " ' ,'
V' !' B 5 8 8283 +:5J32 ; <8 4.B 3 .: ; ; 2 - * ' +:B8 ; ; 2 ?92 + ' <B:5:5. 3 :5 E + .= 5J4' 5 6' 3 G: ; 52 40 ; < :B3 5.20 3 :5 5283 8:9E253 ?9 95 G:9BJ2: 80 283 <B:<B2 ; 253 +2 ; + B 5?: 80 ' % ' - 1 'E ; 0 VR ' ; :5 JB40 +2 :B52 ++2 283 @:+ ' ?92+?92 : 8 5 E2B 32 < :9B ; : ' @ ; 2 32 G2 9 B 5?: 80 ' # ' 5' 283 4 58 +2 S 6 8 G.+2 ?92 + ' <B:5:5. 3 :5 .= 5J2 ' :5 50 :8 ' <+980 82+:5 95 9329B .: 532 ; < :B 50 4 :53 E: 4' +28 32B ; 28 ' 4 B2 B 5?: 8 23 B 5.: 820 89B <2 52 443B2 <<2+4 <"4 53 6 5 8 93 4 B2 B 5.28 23 B 5.'82 .: ; ; 2 5J+G8 23 5J+2820 ? ' ' ' < * ' g' ' :+3 B20 .: ; ; 2 :5 8 30 58 83 ' G2 9 .:9< <:9B ?9 :5 2.B E+3 ' 3 C ' <B:5:5.2 9@:9B* 4 G9 ' B 5. 80 23 ?92+?928 9329B8 ' .B E253 42 ; ; 2 +8 25 4 :55253 <:9B B 8:5 ?9 + 93 4 8* 3 5J92B " ' ?9 ' 8 J5 2 952 5 3 :50 42 B :5* ' ?9 ' 283 95 5 : ; ' <B:<B20 ' ! ' " ' - S * ' 2332 55:E 3 :5 93 .: ; G 33923 23 :9 8 . 520 4 58 + ' <B2 .2 42 828 2 ; B?928 89B +2 3=2_3B2 42 8:5 <2B20 4 3 ' W :98 52 82B2M < 80 ; : 0 8 29B0 42 229A ?9 ' .B E253 B 5? 80 9 + 29 42 B 5?: 8' E +2 ; G2B3 ; G@2.3 3 ?920 8 53 3 53 ?92 42 .= 5J2B0 + 94B 3 2.B B2 * ' 5 2* B 3 <293* 3B2 G 25 4 @:532B ?92 B 5? 8 52 B2<B4* 82532 J9 2B2 ; 29A + ' <B:5:5. 3 :50 23 ?9 :5 42* EB 3 42B B2 * ' .: ; ; 2 " ' = ' ' 3 33 ; B8 CC: ' :932 : 8 55:E 3 :5 ' <B4E +9 E2.' B 8:50 <9 8?9 + R ' 3 :9@:9B8 42 5.:5E45 253 6 4.B B2 42 ; 4B52 429A 8:58 4 4B2538 8 58 9.95 ; :R25 42 +28 4 83 5J92B ' 5 B2 ; B?92B ' ?92 @ 4 8 + ' 4 <=3=:5J92 ' 82 <B:5:5 ' 3 <+9343 :94 ?92 , ' 42 :B32 ?92 +2 < 88 J2 42 + ' <B:5:5. 3 :5 42 ' 25 ' ' 434 ; : 58 43 + .+2 ?9 + 52 +2 2 ; G+2 4 G:B4 -' ' S 6 (' 253 B 5.2 8 ' + 598 ' .:5E 253 J B420 1& ' " ' .! 'A ' ' A 68 ' 5.:8 52 8: 3 ; ' < B:+2 3 5.: 820 ' + ' <923*:5 G 25 253254B2 25 5.: 80 0 .! - -(#! ' <'F ' LL A + 6 8 ' :9B <B254B2 B 5?: 8 H +2:B +28 23 +29B 80 D # ' ' U (J 9B253 <BG8 4 988 ' G 25 +2 B 5?: 8 42 B 80 1' ' 5283 598 L59+ ?9 0 B 5?: 8 82=83 ' 3:' .! ' C %' 28 ; 8:58 5283: 253 < 8 952 +2M 93B2 6 ?9 3B2 < 8 5M ' E 30 4:53 ; 9 3 +29B <: 820 2 3 2B8 4952 + 52 B 5.=: 820 ' 2' S 68' 5 B 5<: 8 HE 5 ?9 ' 82B2.92 ++2 4 58 + ' <B:6 E 5.2 5. 2552 ; 2534 32 #2 42 B 5.2I0 B4 ' 428B:380 3' +90 < ' 7F ' LL S 68' E2.3 :93 .2+28 : 88: 8 J258 42 : A' 53 +28 .:29B8 3:98 B 5?: 80 23 42 +2J2B B2.2* EB:53 +2 B: ' 42 B 5.2 ' 82 J529B0 ' ' E0 ' 2?92+ .: ; 32 42 : A0 8' 3B 8 3:83 : ; ; 2 + ; 2 E 30 ; 2 3 G:552 .=2B20 23 3:2 4 3 25 G:5 B 5.: 8 ' 5' 0 ' ' 9 .: ; ; 25.2 ; 253 428 J92BB280 23 ?92 ' ; 288 B2 + E 2B 42 #?:5 3 42E259 G:5 B 5?: 80 5' ' F' O ' B ?9: ?92 52 42 B 8@2 52 8: 8' : 53 I2 52 + 882 _' 283B2 G:5 B 5?: 80 " ' ' CF' <<B: .=2*3: 0 = B+280 3 53 +: 5J 39 8: 80 9 ; J5 5 ; 2 23 <9 88 53 B:R B 5?: 80 3: ' 0 ' ! 8 ' .2 42B5 2B B: :+2 42 + ' ; :B3 23 42 5:980 + 5 R ' <+98 ?92 2 ?4B20 + 93 < B+2B B 5.: 80 ' ' FC' 5 <29 42 .G 8?92 .=:820 23 B 25 49 3:93 + ' B 5?: 820 5' 0 "%" ' + +9' 4:55: 3 42 G:5 E 50 23 2 :9B5 88: 3 ?92+?92 : 8 42 .: ; < 6 J5 2 B 5.: 82 H42 +2810 ' 1! - ' 0 < ' M0 4 58 ' 28 J258 4 B ; 28 B 5.: 8 49 8 29B 42 2+ J5R0 ?9 ' 283: 253+ 80 5 25 3 5B253 .: ; <320 23 0 82 .*!&! ' "/%2* !26 " ' ' 0 $ ' 0 / 2*-(" D(" ##(; 0 ; -&&" ' 4*! ' ("2* !26 " ' J "% "! :' #"(4*! -&& " ' ' #-(0/% , !!-&< /!0.*-"/% 70 '#" ' ' ' + ' ') ' 4' A) ' #0/(' ' ' - * " E2.' +2 89 A2 ' :9 ' ?9' B <:54 9 89 A2 3 + 25 * ' 23 ?9 ' E 253 49 89 A2 + 3 5 ' - * ' 25 :B ; 54 20 ' 4 58 +2 :B4
* ' Q B 5* . *+29/0 ' ' :R ' @ ' & , ' " , ' 28 B 5.8* ++298 -' ' O 8' B 5.' ++29 283 95 =2B 3 J2 321* +2 ; 253 58 ?9 + 52 4: 3 < : 53 42 : :48 42 32BB2 52 42 .2+9R 5283 9.95 82 J529B :542B 52 4: 3 E283 52 42E283 52 E25328 52 8 8 528 52 93B2 82BE K 3942 ' ?92+?92 82 J529B ; 5 8 ?9 53 283 ' @983 .20 + 283 G 25 89@23 ' + ' @983 .2 :9@9B 84 .3 :5 4 9.950 ' # ' ' <")M ' 4 58 ' O 8' 2 B 5.' ++29 5:G+2 283 .2+9R :4 ' 4B: 3 42@983 .20 52 B2.:55: 88 53 9.95 89<2B 29B0 8 5:5 2= B288:B3 42@983 .20 :92' .:9B30 ' 3' ' <' YA ' B 5.' ++29 B:39B 2B 2 3 32BB2 8 58 @983 .20 < :9B + *

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* ' Q B 5*\ *3 *G+/0 !(' "5 ' D :R ' #
* ' Q B 5* +/0 ' ' :R ' % * ' 0 8' * ' D$ ' 0 / @$!@/-/E ' ' :R ' # ! ' Q B 5*.=2* ; 5/0 "5' LL 6 E2.' 2A2 ; <3 :5 42 3:9328 .= BJ280 4233280 23.' + +9' ' E2549 8 '32BB2 = 5.=2 ; 253 23 ?9 332 ; 253 ' LL E2.' B 5.= 820 8 5.2B2 ; 253 ' 2E2M0 +2E2M +2 ; 8?920 23 < B+2M 5.=2 ; 2530 ' ,& ! " !# ' 0 ' 3 4 328 B 5.=2 ; 253 .2 ?9 + 93 ?92 @2 8820 @! - ' 50 " ' >2 52 E: 8 B 25 42 <+98 .:54 ; * 5 G+2 ?9 95 ; ' ?9 ' 52 5:98 < B+2 < : 53 B 5.=2K ; 2530 ? C #' ' ' B 5.=2 ; 2530 + H95 8:5523I 283 G:5 ' ; 233B2 9 . G 5230 5 C ' 0 ' >2 E:98 4 B ' B 5.=2 ; 253 ?9 :5 82 ; :?92 < B3:93 42 E:980 ' 'B B2' && 'R' _3*.2 4:52 + ' ; 4 B2 :9 < B+2B B 5.=2 ; 253 ' @ ' A' B 5.=2 ; 2530 ; :5K 8 29B0 D= 83: B2 42 .2 <B 5.2 5283 < 8 42 + ' <+98 JB 542 EB 82 ; G+ 5.20 9 ' + ' + & - ! ' C 4 2 CNF' ' 6 952 ' 5 GB2 B 8:+92 23 <B .820 8 58 = 8 32B 5' 82 B2325 B' 28 ; :9E2 ; 2538 4: E253 3B2 2A .93 8 E E2 ; 253 23 B 5.=2 ; 253 ' 2 B J ; 253 82 <:B3 ' B 5.=2 ; 253 25 E 53' LL J' 2 <B:5:5.2B B 5.=2 ; 253 <:9B 952 :< 5 :5 - ' ' O 8' 2 ?9' +:B E 253 <2B . 982 42 B 5. 820 4: E253 + G 25 9M2B B 5.2 ; 2530 " ' o C' :552 .:82 283 ?92 . + ?9' 3 255253 8' B 5?92 ; 253 .: ; ; 2 25 G B:5 2 ' 8 .=253 25 ?9:' + 8253 3259 ' 8 'A0 " ' LL A E 6 8' 3 .2+9' ?9' 283 .:532 ; <3 ' ; ?583B2 B 5.=2 ; 253 3:932 8 ' E:+253 0 0 < 6 ' " " '#O 8' 3 :98 8 B 'JB 54 JB2 42 .2 ?92 8' B 5.=2 ; 253 5:98 5:98 82B:58 32598 H +8 89<<:B3 253 95 8 J2 3BG8*< 5 G+210 8 ' ' ' " "F' '3:83 ?92 +28 8.:58 B253 25 +29B8 J B4280 +8 428.254 B253 42 +29B8 .=2E 9A0 23 <B B253 +28 J+ E280 23 8 25 5B253 B 5.=2 ; 253 .: ; G 33B2 ; 5 ' ; 5 9A =J3: 80 5' 0 0 R ' LL AE 6 8' = : ; ; 2 < :9E: 3 2E 32B +2 <2.=20 < :9B .2 ?9 3 <22= ' 3B 5* .=2 ; 253 H8 58 R 3B2 .G53B 5310 9 ' - ' ' +9R B2 ; :583B ' 95 @:9B :9N @ R B 5.=2 ; 253 ?92 ' $ ' 1 ! - ' C ' # << :.B 328 ' +9R B28< :54 3 H 9 B: ' 42 2B82 B 5.=2 ; 253 ?9 + 2B: 3 JB 54 :58. 25.2 42 82 ; 28+28 42 J9 B B +2 ' G BG B28 ?9 ' E:9+: 253 392B +28 B2.80 ' @ #5 ' ! ! - ' $9 2+2 +9 ' 4 B: 3 <+98 B 5.=2 ; 253 ?9 9+.95 93B2 .2 ?9 + E: 3 ' 25 28<2B2B0 H ' & ' A) -'N (! ' # -(& ' 23 +2 89 A2 - 3 G:9 J9 J5' # -(& -3 <B:E25 ' 0 # -(- ' # - & -3 28< J5 23 3 >' # -(- %' @? ' ' ' :R ' ; #+0 ' Q B 5*.= 0 .= 2/0 <:B30 ' 42 B 5.= B' 5 :88 ' B 5.=' J+2 ; :53' :. 9 3+ 5* 3 ?92 B 5.=' < B =B 83:<=2 :+ : ; G
% M?0H7> 0H ' Q B 5*.= *< *5 /0W [, ' :R ') !

' Q B 5*.= B/0 ' : ' L 6 B E2B82B B " 8:+4 ; 2530 B 5.=2 ; 2530 428 < 88 J28 4 .+280 42 JB 548 28< .28' B 5.= B +28 B 5.= B +28 ; 9B8 ' >2 E:94B 8 4 @ ' E: B 328 3B:9<28 .:9B:55 28 95 < 8 R .3:B 29A B 5.= B +28 RB 52280 D!# ' ' " ' 28 .:9B8 2B8 .9 ; 3 38 B 5.= 88253 +28 J9 B2380 9 ' 0 ! - - ! ' S " B2E 254B 0 < :9B8 3* 2+20 23 3:5 ; 2 B ' B 5.= B 3:98 .28 ; :5428 +:3* 3 538 ' :93 .23 M9B0 3:98 . 8 J+:G28 42 + ; ; 20 $92 29 82 ; 89B+ 'B: 93 '49 32 ; <80 ' ,# S ' " ' ' B 5.= B +28 + ; 3280 B 5.= B +28 =: ; 280 < 882B 9 42+ ' 428 =: ; 28 ' @ J' B 5.= B +28 =: ; 28 49 42E: B' B 5.G B +28 =: ; 28 42 + ' <9429B0 0A ' ! / # ' ' 4 58 1 ' $9 : :5?92 ' <9 B 5K .= B +28 =: ; 28 + J 3 ; 280 2 3 E :+2B 25 5 +28 4B: 38 +28 <+98 8 .B 8 58 ' ?92 + ' E2B390 +2 .B ; 2 ' 828 42* JB 80 Q BW0 E0 ' LL 6 B3 .9+ B2 ; 253 ' 882B 25 8 93 53 < B*428898 ?92+?92 .=:82 ' B 5.= B -+" G BB GB20 :52 = 2 'Q ' 2B ; 242 ; B 52' B 5.G B 952 G BB20 9 ' .92 +0 +28 < 882B 8 58 .=:92B ' LL B 5.G B ' + ' + ; 20 8 B 5.2E 89B + ' + ; 2 23 + ' 428 254B2 . +2* ; 253 ' LL 6 J' ' 82 4 3 42 .2 ?92 :5 .: ; < B2 ' 428 < 88 J28 4 .+280 \' 428 :G83 .+28 ?92 :5 B 5.= ' B 9.= B 3:9328 8:B328 42 4 .9+3:8 ' 3:9328 8:B328

4 :G83 .+28 ' 53B2 + ' 3B452 23 ; : ' @2 E: 8 95 <B := < .2 + 93 ?92 ; ' :B3952 R ' 3: ; =2 :9+2 B 5* .= 8820 ' A " ' ' E ' >2 + ' E:R 8 B 5.= B .23 ; ; 2582 532BE ++2 $9 ' ; 8 253B2 2+2 23 ; : ' + ' ; @28+ 'B:R +20 5 ' # ' 50 " ' 2 < 88 J2 4 ' + ' <=R8 ?92 \' + ' J : ; 3B 2 283 B 5.= 0 23 + ' ?928K 3 :5 42E 253 <9B2 ; 253 ; 3= ; 3 ?920 ' = ' , ' ' / , ' :50 8 58 .2 3B 832 :G83 .+2 ; <:86 8 G+2 ' B 5.= B ' % ' . , ' ' F ' LL B 5K .= B +2 < 80 < 882B < B*428898 ?92+?92 .=:82 42 4 K .+20 42 8. GB29A ' ! 2332M + ' : ' .:9E2B3 < B +28 :29EB28 E:3B2 28<B 3 B2 982 42 B 5.= B .2 < 80 82 ; * G+ G+2 ' 95 .=2E + 54: ; <3 <:9882M* 2 E2.' <+98 42 :B.20 ' "66 ' J , ' " ' 2+2 ' 3 ' +29B 332532 H428 <B:3283 538 ?9 ' 82 8253 +8 . 3= :+ ?928+0 23 4 58 .2332 .:5 5.2 +8 :53 B 5.= ' +2 < 80 ' > 7 ' * ' / ' , / ' B 3= ' 3' 0 < ' " ' ! :5 ..29B <B 3 ' B 5.= B 95 < 8 8 B24:9* 3 G+20 L '^ + ' - ' 0 ' LL 5 4 3 4 58 +2 ; ; 2 8258 B 5.= B +2 8 930 ; 8 <+98 8:9E2530 B2 +2 8 93 ' B 5.= B +2 ; :30 2A<B ; 2B 25 <B:<B28 32B ; 28 952 .=:82 ?9 :5 = 8 32 ' 4 B2 < :9B 952 B 8:5 ?92+* .:5?92 ' ' B 5.=' +2 ; :30 + +9 ' 4 3 ?9 + 3 3 99 B <:5 ' ' 94B 3 G 25 B 5.= B +2 ; :30 23 B2* .:55 33B2 ?92 .23 3B2 283 G:5 ' ' > ' , ' / , ' 8 J5 2 988 ' 4 B2 +2 ; :3 288253 2+ ' + ' B 5.= ' +2 ; :3 23 <B: ; 8 +28 E 5J3 ; +2 B 5.8' " ' 3 ' 2B ; 2 42 ; B 52 ' < : ; <2 B 5.= 30 ?9 54 2+2 4:552 <+98 42 9 ?92 +2 E 882 9 5025 B2?: 30 .283B *4 B2 ?92 2 9 ?9 ' 253B2 4 58 +2 G * 3 ; 253 .2882 42 J J52B ' LL 2 E253 B 5.= 30 ?9 54 + .: ; ; 25.2 ' 42E25 B E:B G+2 ' LL 2 9 B 5.= 3 :9 82 B 5.= 3' 2+2 4 ; 592 23 80 <9 820 .2 ?9' 8 253254 42 + ' <+9 2 :9 428 E J928 ?9' 253B253 4 58 +:' E 882 90 ' ! ' Q NCF*N /0 4 58 > ' LL 6 2 B 5.= B0 / ' ' B2 B 5.= ' 5 < * B2 + :G83 .+2 52 82 B 5.= 3 < 8 . +2 ; 253 -' # ' S 6 8' 298 89 B' ; :B3 25 :B: M <9B 8 * J+ 82 B 5.= B H B 5.= BI0 9 ' ' ' C 'LLA ; 6 8' B 3 53 .2 ; 92 9.95 283 25 82BE J20 + 283 8:M ; 5 23 82 + 283 B 52=+MU + 283 =:B8 4:9 < : : 3 8:5 ; 283B20= / ' 6 , ' ' 2 @ ' ; 28 82B8 +28 ?9 M H?92+8 @2 3 25M 49 82J529B0 23 @2 +28 B 5. M 8 58 93:B3 ' 42 + 0 @2 +28 <2B30 ' 1 +9 ' "F' Yb 9 B ' ! .= 9+3 :3 2B 8 :G+ J ' 25 3B253:*=9 3 8:+M 3:9B5: 8 < B 5 42 B2532 ' =2B 3 J20 ' .:54 3 :5 4 .23+2 B2532 <:E: B B 5.= B QB .=232B@0 32932+ : 8 ?9 + <+ B: 3 9 4 3 :3 2B0 ' * ' 283 +9 ' H> 8980 ?9 ' 5:48 ; ' 3 53 $9 + 82 3 82B8 < :9B 5:98 B 5K .= B0 ' #' 0 ' 6 %"F' ' 82 3:93 23 3 8 +25.20 23 +2 .2=E + 2B 82 <B 53 ' ; J 52B .: ; K ; 253 + <:9BB: 3 B 5.= B H3B E2B82B0 8 932BI + ' :5* + 520 0 * ' 3' E0 ' " C'LLAE 6 8' ' 5 R ' ?92 ?9 5M2 @:9B8 ?9N @ R B 5.= ' 3B2532*529 ' 580 6 " ' 0 C ' 2+9 ' ?9 ' ' B 5.= ' 42 .253 < 8 L2 + ; K 328 ' ' 1' 0 " ' 28 5. 258 B 5.= 88: 253 428 59 38 253 2B28 ' G: B20 ' ' "N' 2 E:+29B 2 ; * <+:R2 H+2 5: ; ' 42 29I ' 8:5 R42 <:9B B 5.= B 2 = M B4 23 +28 4 .9+32M ?9 ' 8 :<<:8253 ' 2A2.93 :5 42 828 ; 6 '8.G 5+28 253B2<B 8280 ' ' ,0 - ' ?' - + ' F <B:E' +, ' >98?9 9 S 6 8 2.+20 B :2G B 5 ' ?92 2 8258 4 + B 5.= B0 8258 ?9 ' 5 2A 832 <+98 49 3:93 4 58 + ' + 5J92 ; :42B52 283 + 5 428 . 8 882M B B28 : ' 95 ; :3 R 53 952 8 J5 . 3 :5 G83B 320 ; :B +20 25 ' <B 8 952 .:5* .B 320 <=R8 ?92 ' - * ' , ' 8283 4 3 <:9B 8 25 0423 EB2B 25 + ' B .=23 53 42 + ' * ' 95 ' 825 4 G BB 882 '25 +2 8 93 53
' Q B 5*.= *M/0 ' ' # 0 3 3 42 .2+9' ?9 ' 5283 889@233 ' ' 9.95 3: +3B2 + G2B3 ' 5 5 +2 32 ; <8 ' B2 ; 82 H! B82 ++2I 5 8:5 253 2B2 B 5K .= 820 ? ' ' :582BE2M*E:98 28<B 30 J B42M E:3B2 B 5.= 820 + ' @ 'G ' 2882 42 8:9* < B2B0 : ; 20 < :9B 3 ' B 5.= 820 ' 1 - - ' E0 ' :5 3 ; :=4 <B 8:55 2B B? .:9EB 53 8 ' B 5.= 820 ' @ - ' ' >25 3 258 Q42 ; :9BI0 :9 :5 5 25 3 53 > ; 8' - ' 283 .:58253 B G 25343 ' <2B4B2 3' B 5.= 820 ' H #' ' "7' ' 50 ' * ' + G2B32 4:53 :5 @:9 3 25 ?95 + 29 ' ' 3 32 H49 8 9E J2I 283 4B: 32 23 B2+2E 20 8:5 B2J B4 A2 + 283 +2 ; 3B2 4 58 ' :B 3 <+98 @2 2 .:58 42B20 <+98 + ; 2 B <* <2+2 + ' 8:+3942 23 + ' B 5.= 82 42 8:5 4: ; . +20 ' 7# ' - ' ' * 28 B 5.= 828 4 95 < R80 4 952 E ++20 +28 4B: 38 ?92 <: 8242 95 < R80 952 E ++20 23 ?9 ' + ; 3253 D 93:B+ ' 8:9E2B 92' + H ; :5 25E:R ' E2B8 +2 B: ' 2 ; 23B 980 +2 <B 53 42 B 3 G+ B + ' >9422 4 58 828 B 5.= 8280 ' D ' C (& ' 0 S 9 0 " ' :98 < :9E2M +28 ' 952 E ++2 828 B 5.= 8280 ' "$' ' :?328 +28 E ++28 ; 9B 28 E 253 428 B 5.= 8280 428 + G2B3 80 428 <B E ' J28 @98?92 4 58 3 ' <+98 ' $ 4 2' 5 B.= 2 49 < :9E: B 2:4 +0 ' ! ' & ' # -(& ' 28 8:9E2B 58 ?92 B 5.= B253 +28 32BB 58 4:53 3 253 .: ; <:8 8

+29B8 4 : ; ; 28 25 B2.92 ++ B253 4 G:B4 5 JB 54
B 53 J2 <9 8?9:5 .=23 .=4B2 ; 253 .28 B 5.= K
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23 ; <B 8 G+2 <B:.9B2 ?92+?92 : 8 5 G 25 +2 <2:<+2
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3B:< 8:9B253 42 59++2 .:58 42B 3 :5 8:98 +28 BGJ528
J+:B 29 - 0 < 0 # 3 E < 0
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.2B3 528 B 5.= 828 B 5.= 82 495 + 29 E 5
3 J2 4:5 +@:9 342 B2.2E: B+28 ; B.= 54 828 43B 5
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.=2 < B 95 428 G:938 4 + 83 392 42 + 4228820 5
42 52 <: 53 <2B4B2 +29B B 5.= 82 49 @! ! -
B 5.= 82 428 ?9 B3 2B8 5: ; 4:554 4 58 + E ++2
42 : ; 2) 952 .2B3 52"25492428 =432+8 428 ;
G 88 429B8 428 <B 5.28 .=B23 258 4 58+ ?92++2 .29A
?9 82 B23 B253 52 <29E253 N3B2 5 < 5:9B89 E 8 5 B
B2328 < B + @983 .2 : + 29 ; 4 ; 2 42 + B 5.= 82
5 52 8 9B 3 +2 <B254B2 25 .2 + 29*+4 .283 952
B 5.= 82 % 522B 34 E2. + ?92++2 :5 < B 2 W
3B9 :9 :5 J 3) 2J B4 4 93B9 B 5.= 82 49
. B .3GB2 3 42 +9 34 ; : J52B E2. ?92++2 B 5.= 82
828 .: ; ; 542 ; 2538 E:98 ; 2 E:R2M 8:9 ; 82
,& ! % 3 E: B952 4 ; 2 :9E2B32 952 B 5K
.= 82 253 GB2 B: (! E 82 J529B 43 53
829+8 >2 < B+2 E2. B 5.= 82 5 @ # !# 5
283 G 25 428 254B: 38 := + < 2 52 B 5.= 82 2E 25
4B 3 B 4 .9+2 23 82B 3 <29 <2B ; 82 6 A 3
! 8 49 <+98 JB 54 428 B: 8 + G:534 8 58 + ; 32
B93 E: B 4 58 ; B 5.= 82 95 ; 2B 32 5:9E2 9
5:5 A 28<GB2M <+98 42 . 5429B 42 B 5K
.= 82 44?9 32 495 =: ; ; 2 ?9 8283 42<9 8
?92+?92 32 ; <8 + EB2 + .: 9B E 5 2B42M
; : 58 4 B3 .2 3B: ; <2B ; B 5.G 82 D#7N
7 5 +422 ?9 43 3+ B 5.= 82 ; ; 2 < B+
58 .2 <B 5.2 5 B 52 D 58 95 4 8K
.:9B8 8:5 89<2B 29B + + G2B32 283 952 = B4 2882
:9 ; 289B42 :9 3B:< :B32 + B 5.= 82 82 3 253 <+98
4 58 +28 @98328 =: ; 28 23 283 ..: ; < J542 42 . 5K
429B $! & # -(& N 2B ; 2 4 B38
B 5.= 82 42 < 5<2 9 B 5.= 82 42 G9B 5 3B E +
B 5. .+2 23 = B4 49 < 5.2 9 49 G9B 5 LL 2
; 2 9 @2 3 283 95 @29 Q ; 5 432 42 @:92B/ ?9
42 + B 5.= 82
- 6)+85L1)1 + 8 5.4B 34 52
3B = 3 @ ; 8 + E4B 34 + B 5.= 82 + 4 3 :9E2B32
; 253 =: ; ; 2 8 5.2B2 283 E2. +9 * ; a ; 2 988
G 25 ?9 E2. +28 93B28 =: ; ; 2 B 5. 52 283?9
E2. 93B9 + B 5.= 82 283 + 8 5. B 32 .:58 4 B 2
J B4 4 93B9
- # S 6 8 <2B42 H?9 <2B42 8 B 5.= 82
8 +B2 52 <:3 B2 .=232B :38 H7 " A568
E2+3 4: 5:83B2 32BB2 + B 5.= 82 B23B B2 >432B B23
B2B (/ AAA +2 H J+ 82 42 3 E: B G 25 239 3
8925 H3:58 +28 8 258 B 5.= 82 $9 53 < B 8
; :B3 + 4 5:83B2 8 B2 . :5?9 82 ,& # C:
J 8 ! :9+3 3 2B32 .:9B3: 82 23 < 2 52 42
B 5.= 82 D # 5 + :58 < B 8 JB 53 B 5.= 82
2E:83 8:9 B B 25 59+2 J9 82 $92 83 25 8 ;
; + ; 252M $9 4 ; : L 983 .=: 8:52M D -
F F B 5.= 2 283 5 39B2A <22B8 H<:9E: B ?92
.= 8.958 <923 2B2 8 E:+2532 82 4B: 3 :9 :B.2
52 +2 42 253 + 5 " ; 7 86 2 / <B25 @2B2
B28:5 8 283 82 . + 23 82 H8 ; 2B2 :53 283 25
283 3 42 B 5.82 3:932 +:B E 2 g
B 5.=2 H B 5.2 ?92 42 B 5.882 283 4 32 < B
4B: 3 5:5 <2B49 42 B 5.882 +2 <8 2 +2 B25:5
" " 2832 B 5.= 82 :53 5.252 ; 2<3 +28 82
J5:B8 4:9 B2 33 ; 242 >2B98 +2 ; 4:5 8 G:BJ2 8
? " " C 28 <:88288 :58 23 +28 B 5.= 828 82
+ 8 532 (J+ 82 42 >2 ; 8 +2 ; ; ; 2B2 ; 53 25
4B 2++2 ! 2 8 ; 2 ; 253 +28 G:528 E ++28
23 +28 .:9839 ; 28 42 3:5 B:R 9 ; 2 J B42 25 283 3 23
25 + B 5.= 82 :4 328 4.E 5. 2B8 +28 :53 J 4 28
- - O ($9 B 5.= 82 E253 <:9B E: B
25 42882B3 H ; B32 8:9 B 5.2 E: B :B 23 B
J253 42 3:932 B 82 2 4 +32 ; :53 52 E 93 B 5K
.= 82 % 0# % < NO F
:9+93 ; :583B2B 94 3 492 42 :9BJ:5J52 42 JB 58
B 5.= 828 23 9R 83 8? E: B 3:93 .2.R H952 <B:<:K

8 3 :5 42 3B = 8:51 .: #3 E +LAE 68 R
3 < B B 5.= 82 23 5.2 42 8 +:R 93 0
M :5J929B 49 32 ; <8 52832 53 5:G+2882 B 5K
.= 82 DE $9 GB 82 952 B 5.= 82 GB 82
3:9328 +28 93B28H.2+9 ?9 25 B2 53 95 8 +2 52 <293
3B2 B2?9 25 9.951 5 B B 5 .: ; ; 25.2 982B
4952 B 5.= 82 42 < B+2B ?9 428:R*B:28 ; 2283:4 29
82 ! 1 ! # +< 88 25+ 8+2 42 ; :3=B .2 +
:4 + 8 + B254B2 25 + B 5.= 82 23 8 9E2J 42
49 32 ; <+2 42 83:B 23 42 :++9A 5 0 C FF
** (! # -(F <B:E25^ # -=7 3 28< J5
23 <:B39J # -=7 3 3 + # -(& BB
3 # Q B 5*.= *8 *G+ / " ; $9 :5
<293 B 5.= B
- N (! # -(& #
j # Q B 5*.= * 2* ; 5/
.3 :5 42 B 5.= B 28 2 238 5 +:J928 H+28 B2
; :98/ 82 <B:49 8253 8 58 .2882 89B +2 = 5 23 +2
B 5.= 882 ; 253 42 .28 ; 5:98 5283 < 8 952 428
; : 54B28 4 .9+3 8 9A?92+28 :5 2A2B.2 5:8 <:5
3:55 2B8 *(% ?(" 1! # -"7
3 EB 6 CC"
3 $ Q B 5*8 *\ / " ; $9 << B3 253
9A B 5.8 2 ; <2B29B B:G58 B2?93+2 89 ; : ; 42
B 5. ?92 <:9B 428 E .3: B28 B2 ; <:B3 28 8 B +28
B 5.8 / J92 B 5. ?92 5. 2552 4 5: ; 5 3 :5
< B + ?92++2 5 4 8 J5 3 5. 25 G 93 +2 ; 54
3 # a-" 7 42 #!-" +28 B 5.8
Q B 568 *M *8 :5/08 6 2B ; 2
42 4B: 3 .: ; ; 2B. + .32 ?9 .:5 32 + 5 3 :5
+ 3 495 5 E B2 B 5? 8 6 .3 :5 42 B 5. 82B
B 5. 8 3 :5 495 ; :3 + 3 5
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Q B 5*8 *8 \ 5/ 2+ J 29A 42
:B4B2 42 53* B 5?: 8 4 88 82 $5 . 9E253 42
B 5. 8. 58 ?" ; 5 ; : 52 B 5. 8. 5
- (! @ # - ! "Y? ?9 :54 E2B8 B
95 :B4B2 4 3 42 ; 254 538 a 9B253 4283 5 8 < B
+29B 583 393 :5 <B .=2B 23 4 ; 5 83B2B +28 8
.B2 ; 253842 < 5 325.2 #8 8+? <2+ B253 4 G:B4 < 9
EB28 ; 529B8 <9 8 B2B28 ; 529B8
F*N * F Q B 5*8 *M M 2/ # 42
B 5. 82B $9 <B 8 + :B ; 2 428 ; :38 B 5? 8 5
; :3 5J+ 8 B 5.8 $9 <B 8 +28 ; 5 GB28 B 5
. +828 2 <23 38 ; 288 29B8 B 5.8 8 ?9 G: E253 42
2 9 < B B KA M
Q B 5*8+*M / ; + 36 552B +
:B ; 2 B 5. 82 95 ; :3 3B 5QL 2B 552B +28
; 5 GB28 B 5. 828 :9B?9: .2 <: 32 5 8+ 3254B2
@ . 52 23 ?9 :5 ..982 4 E: B B 5. 8 +28 = B:8
42 53 ?9 3 0 *3* + 8 95 <29 42 49B23 4 58 .2
. B 23GB2 5 3 53 < 8 . < G+2 42 B 5. 82B
.: ; ; 2 ?92+?928 .B E 58 +28 < 3B B.=28 23 +28
<B:<=G328 ,# " ! " #
YI 2 B 5. 82B 5 # 2E25 B B 5? 8 2 ; ; :3
5B < B 82 B 5. 82B QQ B254B2 +28 ; 5 GB28 B 5
? 8 8 23 3B 5J2B 8283 G 25 B 5. 8 42<9 8 ?9
283 58
- # 2839 8 :9B 42 + :.=2 283: 3 =: ; ; 2
@:R29A 23 ?9 54 + 283: 3 25 828 G:5528 H25 G2+2
=9 ; 29B 0 ?9 283: 3 G 25 8:9E253 + + 3 5 8: 3 +2
B 5?: 8 23 B 5. 8: 3+2 + 3 5 1!- -
- (! # - / 23 + 5 +2 # ?9 8 2
B2 42E25 B
3 ! Q B 5*8 *8 ; / 5. 25 8R5:
5R ; 2 42 J . 8 ; 2 ; 98 4 58 8 JB ; ; B2
<<2+2 B 5. 8 ; 2 .2 ?92 5:98 <<2+:58 J + . 8 ; 8
D j) P
$ Q B 5*8 *8 \ / # .=2 4 B ; 28
?92 <:B3 253 +28 B 5.8
- ! 28 G .=28 42 J92BB2 ?9 :5 3B:9E2 4 58
+28 8 <9+3 B28 B 5?928 52 4 2B253 < 8 42 + = .=2
:B4 5 B2 23 52 82 B <<:B3 53 < 8 + 428.B <3 :5
?92 4:552 = 32 9GB 54 4 58 +28 C # # E :58
H+28 B 5.8/ :53 + .2 539B2 + B24:93 G+2 B 5. 8
?92 28<G22 42 = .=2 429A 3B 5.= 538 4:53 +2
; 5.=2 283 B2.:5E2B3 495 49B .2B B ; 2 952832
?92+2 B 5. @2332 25 <:988 53 ; .B 42 ; :B3 23 ?9
; 5?92 B B2 ; 253 42 B <<2B +2 G93 ?9 95 :2+ 5
3B2< 42 ; B?9
- (! 3 # -" 42 # (7 B 5.
! $ Q \ 5 ; *8:5/ 2+9 ?9
283 5 3 + B 5.* ; ?:552B 2 52+:J2 42 B 5.8
; ?:58 J 2 42 ; 548 .2 ?9 3 253 .28 = B:
<= 5328 .28 B 5.8* ; ^:58 8 .B 8 ?9 . + GB 253
+29B8 ; R 3GB28 53 ?928 42 ; :3=B .2 23 4 :9 +8
E25 253 29A 23 +29B8 4 29A . G B28 9 &
@ ! &# (
- (! # -(23 /!- 28 # -) ! -
B 33 =253 +29B :B J 52 # B ; B B.= 32.32 4932
<+2 42 +: ; :5 + 9B 3 3 39 25 3B = 8:5 23 828
:9EB 2B8 8 82B 253 95 8 <:9B 82 <B:3 J2B :9 82
82.:9B B +28 958 +28 93B28 + E 8 58 4 B2 ?92 .2332

+ J2542 5 9.95 :542 ; 253 :B J 5242 G B 5.
; .:552B 2 283 5.2B3 52 2+2 B2 ; :532 <293* 3B8
K 9A .:B<:B 3 :58 4 :9EB 2B8 ; .:58 49 ; :R25 J2
49 ; : 58 2+2 8 283 4 G:B4 : 5 2 89B .2 ; :4G+2
! $ Q B 5 ; *8:*52*B 2/
88:. 3 :5 <= + 53=B:< ?92 82.B 32 93B2 : 8 ?9
3 95 ; 5<+: 8R ; G:+ ?92 428 583B9 ; 2538 9
8 J2 42 B.= 32.32 23 49 ; ?:5 23 4:53+28 + 29
42 B295 :5 8:53 <<2+ 8 +:J28 J 253 ; 253 42
8R ; < 3= 2 ?9 5 +3 . +2 ; 253 253B2 J258 42 ; ; 2
<B: 288 :5 42 ; ; 28 4 28 # R 952 8:B3242 B 5.
; ?:552B 2 253B2 +28 B3 8328
$?- # - ( ) ! -
Q B 5*\ :/ "5 2B ; 2 42 .: ; ; 2B.2 58
B 8 42 3B 58<:B3 :98 B2.2EB2M .2 < ?923 B 5.:
$?- 283 3 + 25 # - (! D . * B DE
3 :N $ Q B 5*\ :*J ++ *\ / " ;
2B 39B2 B 5.:*J ++ ?92 :9 ; B2 5J 2552 =: 5
4:55 .B 39B2 428 4 <+ ; 28 428B: 8 42 + + ` B .2
3 + # -(23 +2 + 3 / 7 J 9+: 8
Q B 5*\ :*+ 5/ 82 942 + K
; 52 428 8R+E 58 ?9 283 42 + JB:8829B49 8 5
B B23 42 .28 : 82 9A 25 9B:<2 @: 532 9 G:5
J: +3 42 +29B .= B 4:55 + 29 9A 42 25828 B
J:9B29828 ?9 :53 3 328 25 <+98 29B8 < R8 42 +28
392B 2342 + :5 <B 3254 ?9 +8 :53 29 +2 5: ; 42
B 5.:+ 5 .: ; ; 2 @:9 88 53 4952 8:B32 42 B 5.= 82
8:98 + 8 9E2J B42 42 .28 42 25828
< C 4 58 J ! 923 .: ; ; 2 95 B 5.:K
+ 5 <B 8 82 4 3 4952 <2B8:552 ?9 5 :9EB2 < 8+ G:9
.=2 . 982 ?9 :+2 B 5.:+ 5 52 .= 532 < 825. J2
- O (:9B32B2++28 B 5.:+ 58 <= 8 58
0 11 = JJ
- (! 3 + # - ! - ! 4:53 8 58 4:932 +2
B 5 8 4 B E2 23 5:5 E .2 E2B8
$ Q B 5\ B*3 / 2B ; 2
42 G+ 8:5 :R C
F , # ! 8: , @ Q B 5*B * + / 8< .2 42 <: B2
2 B 5.*B + 4 3 2 B 5.*B + 4= E2B ? 7 7#
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- (! D 4: 3 3B2 . <:9B #! <+98 495
B9 3 <:B32 +2 5: ; 42 B:R +
* Q B 5*8 *+ / B: 3 42 <B254B2
+ J G2 +2 .2B3 52 ?9 53 3 42 82+ 8 58 < R2B +
3 A2 :98 E:9+:5823253254:58 ?9 H = 32+428 5
E + 42 / @:9 88242 B 5.*8 + <:9B +2 82 5 .288 B2
+ <B:E 8 :5 4 .2+9 433 EB + NC" 2 < B+2 ; 253
25B2J 83B + 89<<B288 :5 49 4 A G ; 2 42 G2 9.:9
42 B 5.8*8 + 8 23 4 93B28 B3 .+28 ! "C 7
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5. 2552 ; =22 B 5. 82
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3 B * Q B 5*3 * \/08 :R ;
3 * Q B 5*33*B29B/ 4 38 42
.2B3 58 .:B<8 + J2B8 .B 8 <254 53 +28 J92BB28 42
+ B2E:+93 :5 ?7 7# 28 B 5.8*3 B29B8
Q B 5*@@0 @ A 542 495 3 889
3B: 3 4: <254253 428 5+2 ; 23 ?9 82B3 ; 2B +28
B:G28 +28 ; 29G+28 +28 J B5 39B28 42 : BB:882 +28
< E2 ; 2538 J 82 23. :98 2B2M E2. 42 <23 38
.:B4:58 428 B 5J28 ? 2 E:98 ; 233B2M 9A ?9 3B2
.: 58 #! B5 ; +8 9 4:93 E:98 E:98 .:9EB2M i
D 7 J !- SA # J B3:93 .9 ; 2
GB ++ 532 952 B 5J2 3 5.2+ 532 2 5 +2 G:B4 428
+:38 ; 2B8 K # F @/ 6 2B ; 2 4 5
3: ; 2 B 5J28 8R5:E +28 B2<+ 8 428 8R5:E +28 +
JGB2 ; 253 +:33 538 4 58 +28 . E 3 8 B3 .9+ B28
6 : 88:5 49 J25B2 .R<B 5
S 6 8 83 H+ 2G B 32 42 =B 83 283 +
: J52 ; 25M 4288253 42+ .= 2 25 + G BG2 \ 428
8253 88 25 :B+2 42+ E283 ; 253 258 ?92 528
H ; ; 2 952 <23 32 B 5J2 52 8: 3 825M : J52 ; 25M
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- (! e ++:5 ## (& #!5 - # - 3 8 : +
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4:9A 2A2 ; <+2 42 - ?9 82 .= 5J2 988 25 /
4:9A K 7 " - / - <293 # - / # E: B +
:B ; 2 # - / # +3 + 25 # - / 28< J5:+ # -**
+2 ; 54 # 5J+ 8 # - / E 255253 49
B 5? 8 BB:5 B <<B .=2 # 42 # GB2
Nc c Q 5*@ @ 2/0<:B <V 88 42 B 5JWB
36 ; 5 42 B 5J28 5 B 4 9 B 5J 2B ; 2 42
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7- , ! "' 1!(07"' (!"0//##"(4"' (*//07"(+8%6*&*7-@
, ! "('N d ? %-"' , ! -' 2*/(-(%('026"%"' "% ' . "/#"'
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, ! -' (*/% "% -& (-' #!"'/%' ' Y ' N : . ! (' %" +'
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#*-%#*//"4&"7" ,!-8'#" &" 707"@4&"7"' 2 2 ' ,'
&"(408"'5 #" 2" (#"!:' +*%(' "% ' '*/'O
2*+4*("2"&!8' 707"@4&"7" ' ' ' '
' 1!/' 1O.*-% /*!'-' "%O.*-%4*!' 707"(#"
(*/'0+-%-"&O'/*!'-!'" #" (*/' "/$O/2"
/ , '/
' ?' CO&&*/'/ '4'*.' ' 6'5
"(407/' ' -%O9' ' #!' ;O(@&O%-/' / ,
, '#O/(&"(&*-(' 6O'"(' &8'O'#"!:"%8+*K
&*7-"(O!((-4'*;O;&"(1!/" ,!" 1O!%'">4&O'4'"+-""
&O%-/"'!OO' / '#4*/#O/%' 70'O$-%5 ;-"/' &"!'(
'*!' ,'OH/#"'*'#-/O-'"+"/%O!' F' 7"'+0/-,!"'
1*;9"2%-*/'1"(%40(O;(*&!' "O" / '"/%'"O!K
%'"('O'#"// ' 'O("/' "+0/-,!" > 7*%6'
!O#%50/2' 60!%@O&&"+' g "%%-5$*-(*/'""#'707" '2O!K
%-/'4'*+"(("'&"(%4'*;0;&" ,!" &"(#"!:O%8+;@
&*7-"("%2*/2*!'4*!' &"!'$*'+"' "&"+*%'*+0/
-0-)') D7O@9 ' 9""E' ' ' #" 707"''
' F ?"-+&"(707O("","!:',!-*/%O%O(O-(-(4*!'&O
(O"'%" #" ,!"&,!" #"%%"'NN d ?-("/' 707"!'"' /'
#O9"!/" 707"' $NYF Q!- '"9*-%!/'(O&O-'"'S"(!-(O!@
4'O(#"&!-707" 4*%-"(".-%"!'' *!("+".*!#'-"<
"/2*" 408"' 4*!" 4'"2"4%"!'' ' $ ' -') ' 1"(%
O-/(-,!" #"(O!%" 7"'(707O(40'#"(&-("("'2"-.'(%
&16-(%*-." .* ' **, ' M' "(O((O((-/(707O(,!1-&
+"/O-%O (O !-%' ' / ' -'M' % +*-'
,!"&"(% +*/' (*'%3 +O&6"!:!&9"' /" (!-(Q!!/'
"(2&O." 707O ,!- ("%O&O'%8'O(/"&O'
' "("+;&",!1-&(*-%707#4*!' "$OS'"2"&O'-&("+;&"
,!1-&(*-%408"4*!'"2"&O'
%' H' D"H@#"9' ' ' "/!" #" ;*%0/-,!'
"/'"#"&-&-02"'(,!-O'4*!'"%84"&O707 " +-/-+"
@? ' D7O@9"@+*E('PX' *8' ! :
.*8' O!((-' 'O 16-(%*-,!"' :.-I' (-"2&"
' D7O@9"' = ' '4'"/#!'7"'#".0/%O' "%'*>
707"0/%'/*!(707"*/(E'/' 'NN 1' 1"/707"'O '40"
!/" (*'%"#" 707"' ' *!(.*!#'-"<,!!"&&"$*%40'$O-%"5
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(.'$ ' 1' */.'/-'0."2,!"&,!!/' ' !"!/"'2*/K
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O-/%"% *'&-/' */%' '/O!&#" "$-% e-% !/ *!.'07"'
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9"'707" ,!" ' 07" ,!!-& ("###-%' %' +*-707"
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2*++"("(-+4&"O$$-'+O%-*/' % +*&9"707" ,!!-&/"
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;&"'?' O&/ '-'P' *++0' .*!(O."<&"("8"!:' 7"0-
'*!7"(' 9 ' O."<4&"+"9"707"' ' 9A
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+07-(%'O&' ' - 1 ---' ' *!(&"(.*8"<"/K
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!-+07"' ,!"&"#"!:'*!'2"#40'-""'+0-("'*/%'-'O
2"0'$/1/"'%0-%-*/%*%0-%O40'-"O!%'"%"!:' O2*/%"'*/%
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"#"#-"#"2*%'"7-"/(' "#*/%*&!/"2-%".*&-%"
'#-<'&O-<' -&"("(707-"/"%%O%'*'%*&O-'"
#"/-"'"(#1O!%'"+0-(/'&-%"#0/(2*++"
' &"(#"/'0%"(8/*/8+"(O!' +0-((O!*/"!
!-'4!' 40'-"'&"O!%'"+0-("8#"4*!'O%%"-/#'"&"
2"'O2"$' 2*+407/-"' ,!- ;&!&"'"&O%*/-/-&'"
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!+4('2*/.*!%O2%* *'"2*/"' O (1,!-&O%%"/#O(-.&"
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+ &"/'#"2&"#"/%'"!' '"70/#-%O-'#"'&"(
8"O!*!'7"' $"/*!-&&*/ ,!'"4'"'&"(&"&-%4O%'-"
" ' "+#O&O$"'&"("'!'"#-&O/'O/'-"'"!*'
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,!"&2*/'*'4'"/#O!/-%-% &"/'O/%-*/'
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%O+-%"40'%*/&"+0-(-&%"2*+4'-'&"2"!'O%-"'#0/(
+4*' O4'"(%O!'"(,!-&(/1*/%O40(%O/%*!%*/%
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4 ' +*/ ("%%"&"%%'" O!'"(%'O%-/%"&&-%"*-"%%"
2*%"(%"'"'(+0-(&"'*/%'O-'-/*4&O2"'*/(*/%
-"!+"/%&"($*/2%-*/(#"(&"O!%'"(&"%O%-/%*0'
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&O'#(' &"' (*/%' #O'O/%O7"' "(' 4' ' + -"' (' */%' #O/(' &"! '
&-2"/2"' , ! "&, ! "' 26*(' , ! -' " : 2-%"' &O' 70-"%85' &"(' ("K
2*/#(' */%' #O/(' &"! ' &-2"/2"' , ! "&, ! "' 26*(' #"'
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+ -("5' 6O(2 ! /' (" 4*'%"' 70-&&O'# "' &O' , ! " ! "' #"' "K
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&O' ' "7"/%"' (L ! "O ! ' # ! *' 6"-4"' &O, ! "&&"' "(%"-%' 4* ! ' "
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26-#' #"' &! - ! ' "' &"(' /' ; &"(' / * / /O-/(' 'O ' /'
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&O'#"' /"' . " ! (" ' ' *; ! (%"' . -' -&"' /1"/' (%' , ! "' 4& ! ('
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%' *4' 70-&&O'#(' U&-; ' "(J' ' -' &' &" ! ' #-%>
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%-"/%' # ! ' $*&' */' # -%>' -&' O' &"' 2"' . "O ! ' 70-&&O'#' * ! ' -&' O
&"' 24' . "O ! ' ! /' 4" ! ' 70-&&O'#' ' "&" '
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, ! ! -&' $O ! #'O-%' O# + "%"' 1-/%"' 4*(-%-*/' #! ! /' (1$$&: "'
' -"< /"' . *-%' O ! * ! (' #-$$&2 ! &%#' #"'
$*' + "' ' &"' 'O%%O26"' O' 1O/7&*@(OO*/'
4"% ! &O/%' O ! #O2-" ! : 5' + O-(' -&' -/2&-/"' #O. O/%O7"' # 8'
. *-' ! /' 'O#-2O&' 2"&%-, ! "' >' [- + '8' ' $*'2"5' O/ '
7O#&' ' 2* ! 'O7"
' 'D7O@&&O' '$' + * ! -&&#"(' ' "%' /*/' 7O@
8O'5' &"' #' /"' ("' &-"' 9O + O-(' >' ! /' 7O@&&O' #&" . #5' O !
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#O/%' , ! "&, ! "(@ ! /(' &O' &-"/%>' #"(' 7O@&&O' ! @< #&" . "(E'
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4O'%-"&' , ! -' /"' "2* ! . "' , ! "' 1": %' "' + "' 4*(%#@
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"/' . *! &O/%' "/%"' "' "4#"' ['&O' + O-/' (* ! (' &"' 70-&K
* ! ' #, ! -4O7"' ' '"%"O/2; #' -' '< "" '
9. -&&' M) ' #O/(' s NN d' !9* ! ' #16 ! -5' 70-&&O'#
#1O' ' -#' "' %* ! %"' &O' 4O'%-"' #! ' 4' (-% ! #' ' 1O ' ' -#' "
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"/' O.O-%%' # ! ' + %' #"' + -(O-/"' "%' #"' 4& ! (@ ! /' 4*'%-*/'
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; "(%O/' #! ' 70-&&O'#' #1O. O/%' 4"%-%' 2O; "(%O/' 4&O2#
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+ */%' 7O&O/%' "%' ; -"/' #"&-; "' #' O. "2, ! "(' &"(' ; * + ; O'K
#-"(' 'O ' 'BY'
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&O'#"' ! /' (' %' 2* + 4*(' #! & + ' O((" + ; &"' #! ! /' 4O(' + O'26#
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' O I' (' %' /1"(%"-%' &' #-%' 2* + %"' 4'*4'"'
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O//' #1 (4O7/' 4* ! ' &"(' 2O/O'-"(' ; ' "$' 4* ! ' %*'! K
%"(' ' ' "%' &&' 4' M' #O/('
"/(" "' &O' 70-&['#"' (! ' &"' (! ' "/%"' #"' , ! "&, ! ! ! /' U&"
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X' F ' 2 ' ' H
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"/ ' "' #"' 4&O/%' ("2* + 4*(#"(' ' * ' -7-/O- ' "' #1 + #' -, ! "'
###-#' 4O"' ; *%O/-(%"' * ! 7"' * ! : ' #"' */#O'*8' O' &O
+ # + * - ' "' #"' O-&&O'#' #"' &H/%*//"O 'O + O%"' ! ' "#"
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"%' /*/' 7O@8O'@#"@ + O/E ' /' NN I' 1 ! /' $O3*/' 70-&K
&O'#"' "(%-/' $! %' (! ' 4'-(' #"' &O' . *-"' (-' 70-&&O'#"' + "/%
. #%! ' '< ' 2* + ' /' ' NN d #7#' "' + "/%'
(O/(' $O4*/' &' O' $O-%' 2"&O' ! /' 4" ! ' 70-&&O'#"' + "/%'
'-(%-44"' 2* + + "' /2O' #O/(' "' #-%' 70-&&O'#"' + "/%>
/' "' /' $O-%' ; -"/' #1O ! %"' (' #O/(' &"(' $#%"(' #"' O226 ! ('
& "' ' NNYI' . "2 "/%"O-/' "%' 2* ! ' O7"' %%O@
, ! "' 70-&&O'#"' + "/%' S"' %"O. O-&&"' 70-&&O'#"' + "/%
1 : %' #* + "' * / 2%-*/' , ! -' "(%"' /' . #' -%#' ! ! ' (! 9"%' #-7/'
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+ * ! 'O/%(' "= ' B' O. ' -&' M 'S"' &"' %"O. "K
(O&' U&"' 2- + "%-#' "J' 70-&&O'#"' + "/%' 9' 9 ' "O' !
' I' O I' (' O-&&O'#"' + "/%' %* ! < U-&(J' &"' */%
"/2"/('<')' '< '22-: ' NN : . I' (' O' &*8O ! &%#' (18'
; * ! %"' O' O# . -(' (O-7' " + "/%' -("' 70-&&O'#" + "/%
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#*-%@*6' + O/-"' U&"' (' 26" . O ! : J' 70-&&O'#" + "/%' "%
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, ! "(' &O' . *-: ' ! #"' &"(' %O/%*' "%' + "/O2"'
'# $ ' 2 ' ' "/%"' &"' (! $$-:"' + "+
%' M ' D7O@ O'@#"' ' $' + * ! -&&#"(E' #' '
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(! "' &"' + %' #"' + -(O-/"' "%(!' 1O/- + *
' D7O@&&O'@#-@P1 ' $' + * ! -&&#"(' ' "%' /*/'
7O@8O'@#-@<1E ' ' NN I' O-"%#' ! /' 4" !' . -. ' ' #%O-%
#! ! /' 70-&&O'#-(' , ! -' $O-(O-%' 6*/%' ' (' O + -(' &%*-@
7/#(' (. ' R' d' -(2* ! 'O' 4'*4*(' */' 4M ! ' &-; ' %'
, ! -' / 1O' 4O ! 4" ! ; #"$$O'*! 26"' &"(' * ' "-&&"' (5' &-2"/2"'
#1- + O7-/O%-*/' &O, ! "&&"' "' /' (1O ; O/#* + '/"' ("9* ! O/%
"' ! "#4O' "' #"(' *$$' "/(' (' ' (-; &(' *' ! ' 2' *8"<
$O-' "' O((' <' #"' + 1' : 6*"%' . * ! ' #4*/#"' (O/(' *' ! K
%"O7"(' 4* ! ' /*! ' "4"/%-' O4' #(%' ! ' (' #"' : #"' /*(
$*&-"' "(%"' #"' + O/#"' + 4#' + "-(' "O/#@
7'#' /*(' ! -' 4O(' #"' (' O4O(' 4' (' "O/#' "/%"' "%'
O + -' O$-/' , ! "' . *! (' (*8"<' "/2*' #"' + -' ' %"'
= ' ' ' &&"' + 1#*%-%' #"(' 70-&&O'#-("' ' + O7' #"
%*!(' "(' + O ! : ' a#. ' $ ' Q ! *' 26O/%' %' /' #-' &-
Q ! "&, ! "' 70-&&O'#"' "%' Q ! -' /' *!(' (2O/#O-&(-(
#7O8O/%' # '
X' ' : . &I' (' Q ! O/#' ! /' "(2 ! 8"' . "! %' 4' ! /#"' "'
4"-/' -' -&' #"' ("' 'O2** + + *#"' "/' ! /' O/' -' . * -' ! /'
7' *(' 26". O&' #"' 26O"' %%"' /' "%&"' (*%"' , ! ! -&' &"' "'O'
4O' * -(%"' O. "2, ! "(' , ! "&, ! "(' 70-&&O'#-("'
$ ' 2 ' 5' 4'*. "/, ' A ' "(4>
' 4*%! 7 ' -%O&'
' D7O@&&#' ' $' + * ! -&&#"(' ' "%' /*/' 7O@8#' &"'
' /"' ("' &-"' 4O((' O ! ' 4& ! ' -"&' 1(' (" &-"' >' #"(' 7O@&&"' @<' "'
Q"' ! '5' 7O-&&"%' ' -' + "%O-%' "2' %"O-%(' ' 4O-' (122#(' "%2' 2'
' + * ! ' #! ! /' 7"' /' ' #"' ! ; -OH' (' ' *6' 1*/' #-(%-/K
7! "' >' &"' 7O-&&"%' . 'O-' #-%' O; (' * ! ' + ' /%' 70-&&"%' D21"(%O/%
7O-&&"%' 9O ! ' "' #"' 2"' %O-/(' O' O-%"' ! ' (' , ! -' O44"&&"' %' 70-&K
&"' ; O/2' ' 7O-&&"%' + *&&! ' 7*E' "%' &' 7O-&&"%' O22' *@
26O/%' ! ' "' #"' 4&O/%"(' + *#' + O-/"' &O7O-' "' + "/%' 7'O@
%"' ' "' /2* ! ' "' #O/(' &"'
'# $ ' %' /%' O2%-*/' #"' * ' D. *8' 2"' + *%E
@ ' D7O@ "@%1' ' + * ! -&&#"(E ' ' *8
%' Q ' D7O@ *@/' ? 1 ' ' + * ! -&&#"(E ' '
"' + (' #"' ; *%O/-, ! "' "/' #"' 2*/' (*%' ! ' "/' /' "%
O ! 9* ! ' #16 ! -' #O/(' &"(' -$! ' (*-%' #1O ! ' ! #"' ! ' 2' ###-#
O ! ' ; *%O/-(%"' O-&&O'#*/' , ! -O; ' "O ! 2* ! ' 4' %' O. O-&&O#' ! '
&"' O&7! "(
' D76#@ + O/E ' /' *8'
' D76-/5' 1/' /' ("&-"' 4O(5' - + 76-/"' : 2"((-$5O ! '
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, ! "' */' 7O7' "' 2"' , ! "' */' *; %"' "' /' $O-%' #1O' 7"' /%
* ! ' #"' . O&"' ! (' ' "%%"' "' /' 2* + + ! /' &"' 70-/' %' &O
4"' %"' &' - (, ! "' #* ! ' /' #* + . "O ! ' &"' 70-/' ! ! -&' O. O-%' $O-%5'
?O-(' -"' /' ! "' 2"%%"' $*-(' /' ! ' -' -&' (' *! 6O-%' '
- ' ' 1"(4"' O/2"' #! ' 70-/' /1"' (%-^O('
2"' , ! -' + "' $-O%%"' , ' O>' -' ' O. O-&&"<' 4* ! ' ' &O'
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#! ! / ' -&&! (%"' #2' - . O-/' ' & ' "' - . ' ! / . -&' O + *! %
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(-"' ((* ! -&&O'%*! (' &"(' #2' -%(' + ' 1' -. ' NN d -7 . O/@
%O7"' (!22#(' ' #! ((-%"' #O/(' ! / "' "/%"' 4'-(' ! /"' O%K
$O-' ' S"' %-' ! /' #7' ! ; &"' 70-/' #! /' (-' 4"%-%@#* + + O7"'
O ?' O ' &' U -" ! J' /* ! (' O((! ' "' "/%' "' /%"'
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2 ! "%O@%' 4O((' "' #O/(' &"' ("/(' "' , ! "' ! ' "%' O' ' -. "' O!
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(-(O ! ' "' (*/' + "' /' . O&O-%' 4O(' + -' "' ! : ' &"' 70-/
#! + * / #' ! / "' ! %-"' ' ? ' O ' # ' NNYF "//"
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O@. O/%O7"(' , ! -' (' $*/%' "/%' #*4' ! ' "' $O. " ! ' # ! (! ' "@
. -. O/%' NN O-/(' "%' #4O'7"(' O2, ! -(-%-*/' , ! "' $*/%
&"(' "/$O/%(' ' ' #' "' 6"(' "' #"' ' ; -"/' 4O%"' "/%*! ' %@
/"&' O' 70-/' #! ! /"' ; O%-&&"' O2O%"' #"' ; *%%"' 4O%2"
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2-' ' &O$"' , ! ' ' 4"' 70-/' #! ! /"'
; O%O-&&"' ' %' "'-' Y' NNR O-/#! ! /4' 2 (O. O/%' V
%O7"' #O/(' ! /' 4' ' 4'*2' (* ; %"' ! /' 40"' (" /%"' /2' ! ' (9 ! 7"(
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! /' 4'*2' 9 "%' 4O' "' : ' #O/(' ! /' #O/(' ; O%
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U#"' S ! ' -"! ' J' "%' -&' #' */' 70-/' #' 20 ! (' O ! ' : ' %' *&#
'O/%' ' - ! ' (*%' ! ' #"' (*2-/-"' (# 7 ! -((
' I' / M' /' 9* ! ' ' * ! -(O' 9' *%' O/%O ! '
%' -2%' O2' -&' 8' ' ! %' ! ' 2' ! 4' ! #' * ! %' ! : ' 6' (-"' U#-%
&' 2* + %' #' ' O + "' #' *%' &"' * ! #' /O' %*' %' O ! ' -' ' (O/
O. "-' ! ' &' 2* ! 4J' /' . *8"<' @. * ! ' (' 4O(' ' 4* ! ' ! (
, ! "' &O' 26*(' #"' "%' $' #1O ! %"' ! #"' #' ! ' ! "' ! %' (' 2"' (
+ "((-"' ! ' (' O' ! ' O-' ' O-' %' * O' ! %' 7O' 7O#' 2O ! ' ! 2O
#' ' = , ' ' $3 ' B ' NN MI ' "' 70-/' #! ! /"' 40"%-"'
O. O/%O7"' * ; %"' ! /' #O/(' ! /' 40"%-"' #"' 9" ! ' "' NN
"%-"' (! ' (*/7O-/"' &' -%%"' #"' 9" ! ' &*' ' (' ! *%O/%' 7O7/
' 'O I' (' %' (' . *(%' %' 7OO-/7' "' . * ! (' 4"'
+ O/%O@9"' + -"' &' ' . / ' ' 9' ! ' #' 4" ! 7' "' + "%' ! O/%
":' %-"' #"' O' "(' 4&O-(' "*/%O/%' 7O%' ! O ! ' #O/('
#"' &O' "' $O-%' O2%-*/' #' 1' 7' : ! -I' (#' -&' + "' 4O/O-
"' "/' #"' "(' "%' O-' &O' ' ' (' (' ! ' ' (' ! ' 9* ! (' "/%"'
O + "/%' 7O(-"/' O-%' ' ' ! O' ' , ' "/%' &O' 2"' ! (
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O. "/%' ' "' #"' -/%"' "' ! ' %' (%' ! ' #' ! ! ' , ! "' O/%' (' ! ! ' "
.- ' O. -' T' + "(26-"$ (O-' ' 8' U ! /26" . O&J' 2"(%
8. "' ! ' #"' + "' /' 70-/' ' : + ' ' , ! -' &O-#' 7OO-/'
2* + + "' 4" ! %"' ' ' 9 4' YM ' &! ' (*' (
7OO-/' "%' 4&! (' ' 4" ! ' O. -' ' "/' #"' (*! . "' %"' 4O' 2* + @
4O-7/-" U O((*2-O%-*/' *J' ' * ! ' 2* ! ' + O-/' 2"' 4* ! ' (%' ! + "' ' (
oo ' -O ! %' &"' * ! . "' ! 4* + *' 4*-/%' 4"' ! %' "/' 7OO-/' #! '
4&"%-/' ' O ' ' o I' (' 7OO-/' 7' #*-%' O44"&&"'
4" ! %"' , ! -' (O/(' ' "' $O' + "' U ' 4 ! %O-%' "' /' 7O' #' "'
A ' ' ; . I' (' ! O-' (' ! $' #4"' %"' O. "' ! ' &-' ! &
2"O/2-"' #"' ! "' $O2"' "' ! *' &' O' "' "' ' "' ! ' 2"'O/2"' ! "%
*; &-7O' -' *' #' ! ' O' #' ; %' O' ! ' &' *' ! ' "/' ! O-' ' /' %"K
%-((' C ' ' ' %' /' 4' Y ' NN : . - I' (' /'
6O'#-' 2 ! " ! ' O8 + "' * ! ' + -"' ! ' ! ' + * ! ' -' Q ! O/#' "/@
/' + 8' -&' . *-%' "' &O' 2O + 4O-7/"' ! &O' 7O&O' (%' *-%
4' -%' * ! ' ' 7O-/' "' S ' B ' ' -%-%' (-
; -"/' ! ' ! "&&"' 7O-/' "' ! /' ' 4O-' ' "/' #' "%' ! ' "(' + O' #
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! -' 4' (' ' #O/(' ! /' ' 4O' + ' ' 4' /' "' -' -&' 4%-O-' D ! ! ' 4O&
4" ! &&' O ! ' 4O&&' ' 7O' #' ' %' ' #"' %' O-' -%' ' #' ' O-' 7"'
7-(' 4*-/% ' ' "O ! ' ' 4"%-%@' + -*! ' ' 4 M B'
1-/9! (%"' 7O-/' 9 ! ' #O ! ' ! ' U#*' + + O7"J' 1 '
+ ' O / %' / ' 4' Y ! ' 70-/' ' *' ! ' O; * ! '/
(O. "! ' -/' 1
'# $ ' *8 ' - ' : ' 7O&&"*/' ' 4'*. "/3'
7 ' ' 7 ' ' 7
' O/2' 2O%O&' 7 -%O&' ' C'
&' 8O' #O/(' O/2-"/"' + O-(' "' 4OO + 7 "%' * ! '
' -' -(' $-"' 6"' "' "' #"' 4' $"' 1 ' O7"' ' "' ' "' ! ' O' %"' ' /K
(-' / ' "' "' (' ' "' "/' 4' ' *O ! ' ' /' H#' -' ' /' ' ' "%' ! @7O@' O&&"
F 4 / S"' 'O-' / ' "/' /' *' 7' "' ! (*/' ! *' + ' "%
, ! -(' %"' ! ' %' #O/(' &"' $'O/' O-(' D. *8' @:
21' %O#"' "' /(' 4'*4' -; ' ! ' #! ' ' ' + %' 2* ! ' "(4*/#O/%' ! /(' "/("(
4'*4' "' ' ! '
E I #' D76 O/1E' ' 9&' d' $-%! -' #' 2* ! %"O ! ' * ! ' #! ! /'
-/(%' ! ' + ' /%' %' O/26O/%' * ! ' O-7' ' (' 2-("O ! -' #O/('
&"' ! ' 70-/' ' "&O' + "' 4' ! . ' , ! "' &O' /O%' ! "' O' $O-
26" , ! "' 4 ' 4* ! ' (O' %"' / ! "' O' + -(' "/'
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+ -#-' (O/(' , ! "' &"(' * ! ' "' #"' O' ! * ! %O' %"' ! ' -&' %"' %"' O
' = ' ' 2 ' ' NN 4O' : %"' ! (' -7 ! H@
. * ! %' ! ' 4' 'O/' ! /' 70-/' #! ! /' ! &/<O-/"' #"' 4-"#'
"%' &*' 7' ! /' 4'*4' $-(' 70-/' "' 4O' ' -% %"' 70-/' ' ' #"' %"'
S' S' * ! (' ' B' ' "/' ' #"' + O-/' ' ! ' &"'
%O'7"' O ! %' ! ' #"' (' *&(4*! ' ' &"(' $*-%' #"' $-'$-/"' O. O/%' #"'
2* ! #"' &O' ' O&-(%' ! ' "' 4' ! ' "' ' %"' ! %' ; O/#' "/%"' ' "' "%'
%*&&' ' , ! -' O%%O-H"' &O' 7-' ! %"' ' O ! ' $! %' O-/' "(%'
$&O + "' , ! -' $-' ! %' O ! ' %"' ' "6' */' (%' ! ' *6' 40(("/' "'
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%-' &' 2* ! ' ! ' #O/(' &"' O' ! ' %"' &O' 4O' %O-/' ! /' ! ' ' 4O. "' -&'
' I' "' ' D O'26-%"' ! ' -H' "' #' (' 44' ! ' %(' 4-2(

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1-26"&&" - &/ ,G'N?O&O#-"("2'"%" */@
/"'0%%'04"!("70&O/%"'-" ,!-"/""(% #"+#+"#(
&O70&O/%"'-",!-(-7/- %O/%#%2*,!"%%"'-"#0(O
1"(4'-%40'*&"($&O%%"!("%O/%#%4'%"!% #"4"%-%(
;-9*!:%O(%#%-/%'-7!"0."2!("$"+++"*!4&!@
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+"/%$0."!'(#"/!(! 2
@ O I(' "(O!%'"('*-(,!O/# */&"!
'044*'%*-%2"(HO&O/%"'-"(U4&O-(O/%"'-"(J /"(1"/
$0-(*-"/%,!"'-"6*'(+-(8(-+0*6!(("!&,!-
(1"/2* "*!2"*-%)F ! (- O4&!(
40'% #"("(70SO/$"'-"(U02%"(#".0-&&O/2"J4*!
#*//"'+*-"/-'2"!:#"&O.-&&"#!"+++"/"'&"'"(%
#"&"!'(."/#O/7"('--' YM"/!/#
2"(+*!&&/(!/(*&#O%("!&"/$"'+a2*+4*(O'&O.-"
4*!"&!-%%*!%"(O%'*!44"%$!%(O!.#40"(O
70&O/%-("U;'9.*!'"J@ - 1
& ?2
$@ D70@&O/@$E ' "'+"#";*%O@
/-,!" "/'"#!0+0'8&&-#02#"(#O/(&",!"&*/#-(K
%-/7!"&"70&O/%6"/-.-O&044"&".!&70-'"+"/%
4"'2"@/"-7"/-.H*&"70&O/%6-/"*!'70&O/%-/"'8-*@
&-"";!&;"!:'.-*"#!6-."'"-,!!-&/"$O!%40(2*/@
$*/#"'"O."2&"("(462"(#!'7"/'" ,0+O'8&@
&-#O2H"(#-%"(&"+/%4"'2"@/"-7"%/-.H*-"
"/%'"O!%'"(&", ,* !
?:.'&O-%'"%G-.)*P$&"!'
M D70@&O/@%-/E' "+^"$O+-&-"'
*++"'-#-2!&"%/"/%70&O/%'$O-%&"70&O/%-/
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'"+4&-((0/%&O;%"0."2#"-O$O'2"$O-%"#".''O!
&O'#"4-2"(%#"(&-%(#"90+;*/.''O!'%'!$&"(
&O'#,!!"/(!-%"*/"/."&*44"#&-/7""%,!!*/
$O-%2!-'"%'"(@&*/7%"+4(O."2#"1"O!'9O''"%
4-"##"."O!H20'*&%"('"4-2"('"%2
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.-0/#"(%O(%"/4*%"/"(%""/(*(%U(O!2"J"/"
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+O%-/"(Q!O/%&-2!"(U&"2!-(-/-"Z+"%"/70&"/@
%-/"(O/(;O'(7'O/(&!:'U;'*26"%(J"%7'O/(&O+"@
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O&"/%-/"4*!"+-'40$;'*8"<"O$$"/'7-/7"+;"
1"26"$'-%"((!2'#"(6!''-"()&O70&"/K
%-/"260!#"1
$- ?O(@&O%2"'!-'-20'%"&O'#"'-K
.O%-/'#"%-/#-,!"!/'D!#-20&,!-'a"
%'*!."#O/(O&-"+O/#2M'7"&O%-/"%,!-
"(%S"'0#-20&&O%-/#O/(7"&"'O
'*!#!'+48"/-%"%!("4"40'OK
%-*/'#"4*-((*/(
D70@&O/@%-@<"'<-"E'4*'%'4*((#
#"70&O/%-("'&"%'*!.O-+O$"++"70&O/%-(-"40"
#"(7"/(,!-+O/7"O-"/%+*/;-"/1 !/%
=,* '#O/(1!* +,
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#!!/"+O/-6'"70&O/%"#-'"#"(7/&(+%"'-"(O+"
2*/%"<4*-/%"%O/%,!"+*/*.-(07"(%;"O!'S"&"(O&("
;-"/(O/(.*!("%9!O-2"%O0/%O7"Q!"&,!"("4"'K
$"2%-*/(,!-(*-"/%(!"+*/.-(07"Q!"9"(!9(&O
4"+-"'")"+1"/04"'2".*-'5*!"+"70&O/%-("-&
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$*'+"("++'2*+'&Y'?'#"?O/%*!"70@
&O/%-(O"%&*!O$*%&O;"O!%"#"&O'#"#!26"("#!!@
+*/%(.@(-?'%Y$;(*&!+"/%'&U*-%!"%9O
%'*!.-&"("2"'%#".&..'"+"+"*+"+4("&*/&*
&-#"%("&*/-1.O/7-&"5#!O&&"%(*-7/"!("+"/%)'&O
+"(("&"+O%-/'40".'O-"#-.*%-*/"%#"70&O/%-("
O((-##+"/%07-'"(@#&/-"40"!/"2*''!4%-*/"#!"(@
4'-%-/."%'-")N '9!-/'GMB
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4*%"$!%;-"/'O-("#!"%"'26".O&4*!"70&O/%-("'[
&O4*'%--'"*-&"%O-%"/"<-&O *+'2*+'-
F"70&O/%-("''/ $O-'"'&O2*!"')'(*-@
+"+"'(!O#*'-&("70&O/%-("%4"'/#("'#-K
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-[-"#"(2*+4&-+"/%(' #O/(71
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&O-%,!-'#!O4'[(&"("%8+*&*7-(%"("(%&"+ +",!"

&*2'* '#"(&O%-/('8#@OO D8#@O*:-*-5E'O."2!/
4'#$&:"80',!"*44-#"/%-%-"O."2&"O/(2'-%
.026"
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&"(.-%'"(O."2#"&O2'O-"&"(/"%%%*8"'-+40'$O-%"@
+"/%
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S?D70&@;O@/*+15*/4'*/*/9O-%O!%'K
$*-(70&@;O@/*/'&"++*8"/7"4'*/*/70/%*/&O$-K
/O&"&O%-/"P+E'NN d *++*@"(-/"%-"#!!/"
4&O/%"#!++"/*+'.!-'/1"(%40("/2*"2*+4%"@
+"/%#%"+-/"%,!!*/2'*-%%'*!&"1,1
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7*++"#!!/'O';"'.!-'2'*-%"/"8'-5"("(&O'+"(
("/%;-9/26"("7'O(("("#!!/7*#% O+"'"%#!!/"
#"!"$'%"' 9A +,'*6'A'NNi -7
"%$O+-&-'"+"/%'!'70&;O/!+'#"$O!(("(4'*@
+"(("("#"(40'*&"("+"/(*/7"'"("*//"'"#!'70&K
;O/!+'#*//"'"$O!(("("(4"'O/2"(" "/#'"#!
70&;O/!+'%'*+4"'"#!4"' O"/*!(044"&*/(
O'2"&&"*%*!("%%"(-21"(%$"+"&&"'Q!-2*/,!"
#!!/'O-"$O/$O'*/'-"/%/*!(;O-&&""#!70&;O/*/
%2'*-%,!"("(-+4"'-%-"/"/2"("'.'*/%)%'"O!%O/%
#"("/%"/2"(" , '# * A
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#"("%"+*-7/07"(#!"(%&+"'-",!-/'O&;O/!+'
,!"%*!%2"&O5.*%'.-(07"/"+1"($4*-/%/*!."O!'
? ! ,1* '&-'A'/#-%#"+"+'
1"(%!/#*//"!"#"70&;O/!+'NN*2!%-*/#-%*#"
'-"!:'!-'-"/%4"!%@%'"#"2",!"4*!"$O-'"
%*+;"'&"("(/O'#(#O/("&"4-"7"*/'8+"%#"('#@
%-"("$'"%%"(#"70&;O/!'+*!*#"'1*#"!"4&O-%"'C@
+"+"/%O!:'"/O'#("%&*("(O%%-'"O/'&-"!-'-&("/%
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'O (%4*'2"(%;-"/"#-%'?*8("/'"
4'"/#"(4"<"("(%O2%"/%70&;O/"/"%*/-20'(-"/"
$"O("!/"%8+-O/"U40'$!+J2*/$-%"(*&!/"1+.'"#"
2"O<U2"!:J[-&"("!/7!"+"/<$!/%1'4'A
&O'B'O4&;O/!+'!/"+O/-"'"#"4-7+"/%"!
#".("%"+"/%'*!#"2*!&*!"/'!/'1,
O(/'4"%-%"+4&O(%'"#"7(#;O/!+'#
:.-!'B
?'*."/3',#&O/$'1 &O%'1 $
,,!-.-"/%#!'7"2:POMP./E'"+%"("#!*'-@
7-/"([+-%-,!"6 ;"!'*1'70&;O/!+'#"
1'7'O-(("
D70&@;!E' NN d"'+"#!O'*6-%"2%!"
2"#!2*/%*!"#!!/"2"&*//"!"#!!/.O("'#%%
$"!-&&O7"#!*+"+"/%'#"&O2*!;!'":%-"!"@
#!!/"2*!4"/#-%'O'"+"/%2*!'*O!.O-("70S;"
E O"":%"/(-*/'20'O2%'"#!!/"$-7!"'O'#@
H&O'-%#"#!'70&;"7'"2'NNY"+"#"+"/!-("-"
60/%*!+"+"/%,!"1*/("#*//"'!/"4-2"(!"&O
$02"*!'(!"140-(("O"#!";-("'NNi"+"#"+"#
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'O'(%+*/(%'-%(*/'4*'%,!"&
(O/7"&"2*/2".*-%"O/%"&O70'"#"4'-/2"O!'.-K
(07"-&O.*-%'MAA */("#"!:'#"70';"%
#"'2*'07"7'O/(EY8"%"(O(2*/#!-%"U#"
1O+*!'J'O4&!("#"70';'U#!O7'#+"/%,!O/#70&;O/!"&&"@
"(%+"(#"#!-/O#."%O/2"%#"%*!;&"H'/&
YBM'/O(("<;'O."",!-4407"5+O-(044"260/%
4&!("#"&O7*("((-"'"+"#"&O"+O/-",!"#!
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-"//"/%044'"/#"/*(%'"70';"$O-'"!/'2*!'("
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? O%1,'4*+"+"#"2%'4'(
7+!$!A^A!$(F'E'F!'+!#G$J%A!$'F
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7'@E!$'E G'@1'D@$'J'D'7'1'MD@'1'
7 1'L'D@'G!'D!,'FD'JD+'$'J'$+@E'D@
7 1'@'N'@'T'I'G!'*':'GE
AH'@'A'D'G'@'7!'D:'G'AH@'@'K'@'E'
@'$'$'M'I'S'@'J'1'6'!7'!M!$'7'?'$
A!'1'@'G'@'F'E'C'<7'B'!'S'J'D'$'E'@'F'$'7
7'1'Y'7'1'E'D'F'1'G!'@'%'@'!$'1'@'?
/2E!@,$'!$'7:D$'G'@7!'/'[!'E'!$'F'A'!'$

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O&"#!4*'"/*++".!&7^-'"+"/%'*7/
//"'&O70&"(/26-"/'b9-O:-+"#!-/7'O%
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7&O-("!/'"!-'-"("2"&/O/"-&O/#O-(
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"'!4%-*/2"!"!;!'&O&-'*%O-("-7/"/"&"O"
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O&O!%"'O+-&&"%'!%O/%"/#!!"%;O&O!'*/("K
"%O!:'O/-+"#!!2!"/!-+O!("O!/!-+!-;"
(!"+&O$"O-"&O!0"O(!*!"(O'("!+"#"+"!"
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-O+# -# ' B D70@&@O@"1E' "'+"
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&"("/!"/%"/'O.0-"%"/1'-1O.0/%"!"'$!!"70&"""(
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7!"'"'9A*'&"*
'O I("."*!"&"'"/O."(";*/!*"("!"1"*'
;'*#"70&"'O"("%!'"7'*("'"70&"'O2"'"'!"40'"%-/"(*-@
U2*++O/#O-(#O-%!/'O/"%/&'&"'!"%"."*"?"&8
??'R
'#$'-.'#"'/A' "(407%'-O%'4*'-!7'
/ 3'-%O&'B
%' _70@&@O/@%'*@4-"E'X'
"+("#"+#"2-/"?O/-"#O/(&O,!"&&"&"+O&O#"
("2"*-%+"%O+*'46*("/"260%
?' 260%;"&"%%%"% .4(/%O3'6*++"
$'$-'D70@"E'"/*-"/"/*+'#"(;&-@
+"/%("#""+""/*++("4&!("%O'#70&"'"(
'O I('(,!-$("%;O'7"("%"70&-"("%"/"e
6'#"*-'2:::."NN:-Ol('*!("+"%"*/("2-/@
,!O/%"70&-"("O"+"("/".*(%"2*/#!-%'9 19
SO I'("2*-"/%"/'O!*!/'&-"!"%"/"O!"!/'20(
&O'7"+"/%#"("4"/#"%"#*//"'2*+"("'*-%O
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&"(O!%-H"$&*-(("'-'&XY'NN:.-I'(%."H!"&O'70@
&"'4!-("&O4O!("#"&O!-"/"'("/%)"H#/'Y"@
&!8'!-&"$*'"O!"#"*/**/%;O'('O/(&"'"'("-O
.*7!"&O70&"'?'Y)M
'#9 '*."/3
"(407/'4*'%!7 '%O&'-(&O/#
6'#O/4';*&&"O/7&
;O(@&O%"#O/(!/%"%!"#!-:!(-2&"8
'4"%-%"70&"5;O(@7'"2"8O&O-O'4B
!O4';("("O/2-"!'("#!'+*8"/"7"&O
"%O-%!/'7"/'"#O.O-("%"/2"!"%"/"O-#"("'"2*/(@
,!"/2"?/O7"O#+"%,!"&"/"*+"'"#"O-%%"-8-@
O/'$O%044 ,!'2"O-(("O!",!-+O'"%;O-%"$-@
-%"'!0/7"4"/",!'O"%"#-%"#!'&O%-/
)20(,!"/'20(,!"%O/%"4"("%"&O'4*!"
2*++"#O/("2"/O."'#*!/%7!'-#"(O -*(
O'4-2%O'20(-#"/*+"%"60;"%+O-("%"%!
O."2"10022"/%(O"/"4*!0-%#*//""
$*+O/%"(O/2"/2&O/%6%4%&O/-#"("%#O.!'+"+*!'K
70'#"2*++"&O'4&!("4%';O;&"!/"%"4-/*"H-("

B

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%' &$-e ' D7O&@E#@'-"E' ' ' 04-&&*/' #"' /!-%
#1%+'7" /'"' :*-(-/' #"('%'-7/"O'"%' /$-(-;$"O! :'O;"-&&"(
%' M ? ' D7O&@&-@O/@;1E' /X' "'+"' #"' +"@
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&"(, !"&(' #*+-/"' &&O+;"' NN !.'07"' -2'-%' "/' 2"%%%"
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%-2!&O'-%"(', !-' &O' #-(%-/7!"/%' #O/(' 1"/("+;&"' #"' ' h'
7&-(" 2O%6* , !"' -' &"' '-%"' 7O&&-2O/' &"' '-%"' #"' 1 7&-("
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+O'%8'(' *((' O .-&' .-' ' 1 7&-("' 7O&&-2O/"'
O44'*!."' &"' */2-&"' #"' */(%O/2"', !-' #"2&O'"' &"('2*/@
2-&"(' 7"/ 'O! :' (!4"'-"!'('O!' 4O4"' #O/(' &"' (4-'-%!"&'
., $'=, 'B 3'YM' ' O'%-(O/' #"('&-;"'% ('#"
1 7&-("' 7O&&-2O/"'#!'4'-/ -4"#" 1-/#"4"/#O/2"' #"'
"7&-("('/O%-*/O&"(5' N M(%'*44*("' [' &%'O+*/%O-/' "@
&!-' , !-' (*!%-"4%' &"' H *-"O;(*&!' #!' 4O4"' "/' %'*!%"
+O%-"' "' "('7O& 2O/(' "%' "."', !"' 4O((' 4*!"' 7O& @
2O/' i' '(1"(%' #-%, !"&H"$*-(4O2' 4&O&(O#%"'-"' 4*!"
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'f : ' O%-/'7! -2O/!('#"'-."' #"' , '7O!@
&*-(' "%' $%O/2O-4' '5
M a %' D7O&@&-@[O@/%(+1J' 'Y' /("+K
;&"' #"('4'9/2-4"('#"' 1H ("' 7O&&-2O/"'5' O%%O26"+"/%
é'2"('4/O2-4"(' 4O%'*44*(-%-*/' ['' 1&%'O-/*/%O/-(+"'
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? ' D7O&@&-@($@(+1E'(' -' NN i' "'-/"' #"'
2*/(%'!2%-*/' 4'*4'"' [' &O -O/7!"' $'O/2O-(" /' ;*/'
V%-O-%" #"(' 7O-&-2-(+"('("'O-%' !/' *!.'O7"' +4*'%O/%
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, !-' *!%' $O-%' #-(4O'%#%"' 4"!' O' 4"!' #-."'(' +*%(' #O/
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"/%"/#"'(, !*-, !!-&' /"' $#%' 4 ('%*!9*!('$O2-&"' #"' &"('
(!44-"'"/-'/'+"#"&"(#".-/"'-' 1'NN i' O9*/' #"'
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&-/"'O!%'"' O/7!"' J' 8 O #"('97O&&-2-(+"('#O/('&"' #-(@
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$' Q ' D7O&@&-@[*@ HE' 6 "'+"' #"' <**@
&*7-"' 'Q!-' .-%' #O/('&"('":2'*-((O/2"('O44"&"("(' 7O&&"('
'$-: ?' O&&('%' '%'&"' &O%-/' * '6O;-%*' ' -
%' 7O++ #- #' D7%#@ @$%@'1E' 6' "'+"' #"' ;*%O@
/-, !"'Q!-' 4*'%"' &O' /*-:' #"' 7O&&" $
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/['O&*7-"'#*'%"' #"' .'"' ."' .*&2O/' #-%' O!((-' 4-"'"'
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4&!+O7"' "(%' /*-'5' #!' &O%' ' 4*!' &"' "%' &O
@$-/O&"' O!7+"/%O%-."' **
-' ? ' D7O&@&-@/O@(""E' ' ' -'2&"' #!'
26O/%"'"&&"''(*'%"' #"' 26O+4-7/*/
' D7O&@&-@/O@("E'(+' ' ' "'+"' #16-(@
%*-'"' /O%!"'"&&"' ' *+' #!' , !O%'-"+"'*'#"' #"' &O' 2&O(("'
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#*/(' "/' !/' +*%' &O' 4&!4O'% #"' /*(' *-("O!:' #"' #"
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'$: ?' O%' * ' #"' ' 4*!&"' ' #"
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4*!&"(' ' 2*, ($
'$-O -,' ?*%' $*'+"' #!' &O%-/' , 2*, '2*++O'
'-2"' 26".4&-/"' *.-/"' 4*'2-/"' '%2' #"' * 1 , '
'"C ,
$ %$ 'D7O&@&-@/"@%1E'*! &? 'D7O&!'
&-@/*@'E' (' ' *+' .!&7O-'"' #"' 4&!(-"!'(' 26O+4-K
7/*/('#!'7"/'"' #"('2&O.O-'"(
%' ? ' D7O&@&-/@("@[$E' ' ' "' ' "'+"
#!"/%*+*&*HH"' O+- "' #1-/("2%"('6"+-4%"'"(' #*/%
&"' +['&"' /1O' , !"' &"' '-' O-&"('(' (O/(' ; "' ' &O' $"+"&&"'
O4$['"' 4*!'.!"' #1 /' ;"'"' 4'"/#*'&*'(' #"' &O' 4*/%'
'O(4"2%' #!/"' 7O&&"' "(' 2*26"/-&&"(' O44O'%-"//"/%
O! :' 7O&&-/("2%"(
' ?'-S*/4 "%' O' $O-%' 2"' +*%' $"+-/-/'$' O' 4*/%"

(!-%' #"' 4' (' 1O22*!4&"' +"/%' *O"' &O' 7O&&-/("2%"' "(%
.-4O'"5' "%' %O/#-(', !!"&&"' '"(("+;&"' &"' +-/(' [' !/'
O/-+O&' "1"(%' O&"(' 4' 2-([+"/%' , !!"&&"' (1O2, !-%%"'
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(1O22*!4&"' "%' , !!"&&"' #*//"' /O-((O/2"' [' !/' /*+@
;'"!(' 4*(%"'-%#' ' * ' "' F ' >, /' %' .&'
4' 'Y)' #O/('
'$-O ? 2)' ' "%' * ' "' /*+' "(%' #[' ['
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<**&*7-"' O+-/"' #1*-("O! :' O8O/%' 4*!("' %84"' &O' 4*!&"'
#1"O!' (,)' * " 5' #-%' O!((-' 2*&-/' /*-'
' *+' #*/#' 4O' 2"'%O-/(' O!%'!(' O!' 7"/'"' #1*-K
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&", !"(' *4' #-(%-/7!"' ' & O' 7O&&-/!&"' #"' 7"/#%' *!'
+-"'!:' ,)' * ' /*+++"' O!%"$*-(' '[&"' #"' 7"/#%' *!'
7"/[%' O44"&#"' O!((-' 2'"['*-' #"(' 2O-&&"(' "%' '[&"'
'*!7"5' &O' 7O&&-/!&"' /*-"' ' %O-%9O#-('&"' #"' #O/('
"%' &O' 7O&&-/!&"' #"' #"' &O' &O+O&, !"' ' [&"' #"' &O' $O+O&, !"'
#-%' !&7O-"' +"/%' ;-#-@;-#-' "%' ;-#-' O 1
'$-O ?' -+-/!%-$' #!' &O%-/' ' 4*!&"
Q ' D7O&@&-@[1E' 6' Q!-' O44O'%-"/%O!O
O/2-"/(' O!&*-(' "!4&O#"' 7O&&-, !"(
'$-O ? ' O%' , '#"' 2 , '7O!&*-(' 1O/@
2-"/(' O/7!"' #+-%' '* ' , !' /O-%' #!!/' +*%
$-2%-$ * , ' :--!' (-' "' &O' $*'"' /' !/' &O/#"'
%'O-' "%' .-' !/' ;' '"%' ("' B' #"+-"' 6!' 7O&"(26"
' ' 3'C' 4C' ' BB
Q ' D7O&@&-@[1E' 6' "'+"' #"' 26-+-"'
2-#"' 7O&&-, !"'O2&#"' ":-(%"/%' #O/('&O' /*-:' #"' 7O&&"'
'$-O ?' 2)'
$' 'D7O&@&-@(+1E '-/' 8/*/8+"4"!!(-%
#"' 46'"/*&*7-"
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-[+"' #"' O&&'*!'46'#/*&*H"' NN #9"2%-."+"/%' 168@
4*%6"("' 7O&-(%"&
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'O/, O&('$$&*'%' "/' B B' 2[&[;'"' 4O"' (('%'O.O!:' "/'
O/O%*+-"' "%' (!'%*!%' 4O"' &O' 46' /*&*7-"
%' ? ' _7O&&*@+O@/1E' ' "%' ' "&!-'
2"-&"' , !-' O#+-'"' O."2' ":2[(' &O' /O%-*/' $'O/, O-("'
, !-'-++-&"' +#+"' #O/(("('%'O."'(
' $%' O%' 2 , ' O!&*-(' "%' 4O&."-.' O.*-"
,1&1'.
$' + , /O%#' D7O&@&*@+O@/-"E' ' ' O((-*/'
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7O&&*+O/-"' O' #-%' 26-&&"' #O/(' !/"' 4-"2"' #"' ."'(
O#"'"((' [' *"%6"
' D7O&@&*/E' ' ' ?"(!"' O/7&O-("
#"' 2O4O2-%"' 4*!"' &"(' &&, !-#"(' "' 7O&&*/' -+4"' -O&
#1 /7$"%"' "%' #"' &-%"("(' M' "%' "/' #*!O/"' O! :'
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%'"(' '4*' &"(' +O%- "(("26"'
O '!(' *+;-/"' , !"' &"' #-%' S"6O/' &"' *'@
'*-(' "!(%' 9!(%"' +"/%' 4"!' /' 7O&*/' #"' .-/' ' /*'
? ' NN :. !' (/' 7O&*/' , !-' (*/%' #"!:' 4*%6(
#"' 2-(%"' ' /!' H-#'
'$-O ? /7&' ' ' ;O(@&O%-/' 7O&"' 8*&*' %"
O!((-' ' ' *!' 4'%-' %' 2*/%-"' !/' 4O'%*
'O#-2O&' '*!'6 ', !-' "%'*!!' #O/(' 1O/2-"/' $'O/!
2O-(') '6 '(*%"' #"' +"(!'"' (O@O%'
+%(' #!*'-7-/2*!!"' 'O!' (!9"%' #"(, !"&' *2*/K
9"2%!'"' #"' 2O&&-' , , '.O(' ' 1 &&"' +O/#"' +O/#"
#* "2 '&&"' 9O%%' ' ?O- ' -"<*;9"2%"' , !"' O7' O2/'
2"/%' #O/('7O!&' (/' a" ("O-%' 4O(' O%%"/!' O/%'"'
, !"' #* 'O!'O-%' /' '*

' D7O&@*/E' ' ' O&&*/' #"' */7-/"' #"
#!' -[+*/%' (*%' #"' 7O&&"' -' ' 7!-["' 4'*.O/%&"'
#!!/"' 4-, !"' #"' *4 ' "' $O-%' O!+' +*-%' *, '
' $-O ? ' 2)'
$' D7O&@*@$*@6-"E' (' ' ."(-*/' #"' #"
4*!' &"(' 'O/2O-(' O' 7O&&*46*;-"' 1"+4O' 1 &@
-"+O7/"' ['&O' (!-%' #"' *44' (-4/' , !' O4*&['/' 1'
$-%' 4"(%' &"'
' $-O ? ' O%' 2 , O!&*-(' "%' G4M' 2'O&/O'
#"' #[%' %6"
%' ? & ' D7O&@*@' *@+O-/'+"@/1E'
6' Q!-' O44O'%-"/%' [' &O' $*-('O!:' O!&*-(' "%' O!:' *@
+O-/(' #"' 4!-(' &O' 2*/' !/"' O!&-"(' 4O' #' *+O-/('
"-*#"' 7O&&*@'*+O-/"' "' #' #"' 1[2'-%!' , !-' $!%
-/%'*#!' "/' /' 7%"' "' 4O' 4O' #"' $'O/2O-(' !;@
(&O/%-.-"+"/%' #O/(' 4%' 2*+4*("('(O/(' '(+"' ' 4O+
#"' O!&*-(' "%' #"' *' +O-/' &"(' #"' 4!O' #"' *' +O-/'
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\' ' D7O@' *E' ' / #"(' /*+(' .!&7O-'"'
#"' &O' %' O/26"' #"' +"' "' D&"' +1 ' ' #-%' O-%((-' D&O/@
** 5'
'%' Y' ' D7O&@*E' ' + $O' -[-['#"' 4*++"
'G7O&&*@26Q' ' I' $*O!((!"' #"' 2!-"'
, !"' 1*/' 4*!' %"' 4O' @' ((!('&"' (' (*&-"' (' 4*!' ' 7O'O/%-"'
&"(' 4-"#('#"' 16! +-#-%' [' Q!O/#' !' /' 6' $' -(['"@

&". [#"' +*!(%O26"' ' "' 7O&*26"' '#"' ;*%%" [?- '
O%'. + ' ' O+-&- '"+"/%' ?"/%*/'#"' 7O&*26"' +"/@
%*/' &*/7' "%' '"2*!' ; [S"'.-"'/(' #"' .*-"' O'-."' 26"'<
+*-' !/"' $-7!' ' "/' &-/7"' (O&"' ' !/' +"/%*/' #"' 7O&"@
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(!'"' #*/%' &"' #"'((!("(%' #"' 2!-' '%' &O' ("+"' '"' #"' 6*-(
' Bd' "'+"' #"' +O'-/"' *!&-"' [' +*!&&"' 4&O%' ,!-
(1O44&-, !*' (!' &"(' 7'O/#"(' ."'7!"(' 4*!' 8' $O-'"
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#!' #*'"!'
' -(:'O I (' "' #*2%"' O&$' '"+O', !"' , !"'
' "(%*-"/%' !/"' "(4"2"' #"' (*!&-"' ('#*/%' &"(' O!&*-'
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O!9"!'#1!' 7O&&"*26"(' < * * ' &-.'
' 4' BMA' #O/(' "(%' 2*++"/%' 7O&*26"('
#"#O/(' "%' #"6*' U4'*."' ;"' #-%' #"' ['2*-"('(' "&"'('
/"(' #"' 1!/-."'(-%"' /*++['7O&*26"(' 4O'2"' , !!-&('
4*'%O-"/%' #"(' 7O&*26"(' "%' , !!-&(' "%O-"/%' #"6*' ("/
, !O&&%"(' #1":%"' +"(' "%' #"#O/(' 2*++"' (!-.O/%' &"('
2*!'(9' O ' O C3' %' '4'YA
'$-O ?' (4O7/') ' -%O&'
"(%4&('O/2-"/' , !"/"' &"' #*//"' 16-(%*'-, !"' 2O' #!'
O/7"' O ' * ' #O/(' !/' %' :%"' #"' YB ' /' &"'
%-'"' #!' &O%-/' * ' (*'%"' #"' ";O!((!"' 7O!&*-("
O."2' ";O/7"' +"/%' #!' (!$$-:' "(&*/' -"<' /' '"+O'@
, !"' O' "/' 2*/$-'+O%-/' , !" , 'O.O-%' #// ' ' S
* ' D.*8' -7! ' E' 26"&"' 4' $"' * "
, ' * "% , ' 7O&*26"' , !-' O (-7/-$-[' !/'
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O 4'"+-['"' [%8+*&*7-"' '"(%"' #"' /"' &O' 4&!(' .+&@
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' 'O f(' ' 8'O' "/2*'"' #"("(2*&-"'(' , !-' #"@
+"!'"/%' 6*'(' #"(' 2*&&"7"(' , !-' ."/%' *!-' &"(' %"7*/('
#!!/' (!' &"(' 6"(' +"/%' #"(' 2*!%!' 1*4-/-*/' &"(' ' "'
4'%-/#' "&H-!' +O-(%'(, !-' &"('7*!."/%' #"' ;"'&"('(
O44"&&"' <' +O'%-/"%' 4O' /*!(' 1"%' #"' (' 7O&*26-"'(
(7!- ' < * ' &-. ' -: ' 4' AI ' #O/('
' ?' 2 *
'D7O@&*/E ' NN I' &((!#1*'' #1O'7"/%' #"
(*&"' 4&!(' "%'*-%' "%' 4&!(' [4O-(' , !!/' ' !; O/' "%' , !-'
+-(' (!"' &"(' 2*!%!' !' ("(' #"(' .[%"+"/%' #"('
+"!;&"(' "%2' ("-%' #1*+"' "/%' "%' +4[26"' , !!-&('
/"' O'"$$-&"' /%' /' 7O&*/' #1*' #1O'7"/%' #"' (*&"' /'
6O;-%' ;O+O-'"' 7*%' ' ' 8' O.O-%' -#' !/' "%' &
#(*'#"' (!' &"(' 6O;-%' ("' 9"' ('7"' /' "%' #"' 2*!'%' 2*++"
%-(O/(' "/2*'"' !!&-&"(' O44O'%-"/%' O!:' 7O&*/(' , !-' (*%'%
#"(' 4O(("('("/%' "(' $O(' ("' 4O(' 2O!(O/%' !/' #"!:-"+"
1O%' %'*' ' ' $*' %"' &"(' #"' 6"' "/' #' &O' (O;' %'
.O&- '= ' ' %' 4' M ' /'7"/'"' O&' +4&O*-"' 26"<
/*!('('&O' 7O&*26"' (O' ;' +"' %' 2O'*%"' ' /' ' ' 7-7*@
(-"'"/%"' -/2O4O;&"' ' 4 ' 2*! ' = ' ') Q!!! /' .OK
&'%' 26O/7"' ("(' 7O&*/' O/' 26O/7"' #1O%-26O+;"' ; "'
' A ' O &-;' ' ' 1"(%' !' ' ; [7!' !&"
"/-.' "Q!-' #O/(' &O' !"*!&"(' (O&*/' *!"' &"' +*+@
#"' ;*!%' &"' &O&' ;O!!' /' O' 2'-O/%' ;O' &O' &-.' "(' +'
< , ' ' -"!:' 6O;-%(' 7O&*/' ' '"-' #"($'-4"' -"
, !-' 2*!"' /' %' &"(' !' ("' #"' O'-(' 4*!' O2;' "%' "' &"(
-"!:' 6O;-%' NN Q!O/' *!' 4"!' /' #!' 7O&*/' *!'
/1"/O!!' 'O&$%*!' 4'' ' 1"(%' @[@#-'"' , !O/' *!' /' "%
['+' +"' -&$O!' 4"!' /' #"' *!' %6"/%' , !-' 4"!' /%' 1"'%' 4'-X'
O'*#-"' #!!' /' ."' #!' < ' #"' Q!-%%%O!&' %--
D9!-' 7*!%"' #"' 2"(' !'"' (O!'O-%' ("' #"' ['$*/#"'"'
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$*-(5' Q!O/#' */' 4"' /#"' O+*O' ' /' 1"' (O!'O-%'
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#-$$"'"/%"(((!'(!-.O/%"' 7'O#"(' , !"' &"(' (' #("' '$$-2"' ('
4*!%"/%' #"' (!' &O' +O/26"' #"' &"' !' 6O;-%' ' O *;('!'
&"(' 7O&*/(' ' N' &O' (' #"' #-%' O!((-' #O/(' &"(' ['2*' ("' +-&-@
%"' -"' #"'9"'!' -/' &"' 7-7!' !-' +"' !-' 7'O#"' ' #'"%'
2O+O@'"' 6"' #"' &"(' 7O&*26"(' , !-' 7"/' ' 6O;-%' NN Bd
%-%' !' ;O!' #"' #*/%' &"' 7O&*/(' "(-' ' ' "' %' ' ' "
' F "'+"' #"' +O'-/"' *#"' #' (' 4*!' &"' #!' ("' "%' ' "$*-K
$-"' &"(' 2*!' NN Q!O/' &"' ' &O' +O-/' 44!&O-"'+O'-/"'
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/"('%"-7/"(
'$-: ?' 2 ' "(4O7/' 7O&*/' O%&'
2 'O!'("/(' #!' !/' ("' #"' '!;O/' "(%' 'O%%O26"' !"
.-"' #"' #' ' , ' %O-' /*!' /' 'K
;O/' +O-(' '!/"' +"' !/' 2*!'%' #O/(' "(' &O' 4'*46"'
."' &"
@ $-'B 'D7O&@*/['/['E' ' ' #"' 7OK
&*//"' '&i /'6O;-' 7O&*//[' (!"' %*!%' &"(' 2*!%!K
"('(' O+-&-['"'+"/%' ("' 4O' &"(' 7O&*//' 1-&' "' #"(' %*!
2*/."' 7O&*' ' NNBd "'+"' #"' <**&*7-"' 'Q!-' O#'@
[2O-&&"' "' #"' #-7/-' #-(4*(-%-*/' #"' 7O&*/
' D7O&@*@/[E' ' O' +"' *!' 4*#P
7O&*/ ' O&*//'' 6O;-%' 26O4O!' NN "' 7O&-2-@
/"' P ' 1*+"' #"' 7O&*/
' O' /!(' -"' '$!." #!' #!' 4*' 4'"' #' *[
B !' $-& #1*' (O'2-7/"' 7O&*//"' ' 2 ' ' #O/(' *'
'99:---I'(' %'."' /"%' (O-/(' (O/(' 7!-+4&"' @

"(26-"."&#"'O' !/' $-&"% #!*' 70&*/H"'0 # !-! 'w BX-' "*-"' *-% !/"' 4!""&" Q!-+*!&%"(%*-% 7"/@ %-"!(' "% ;"&"5 &&" ("(26"'"!(' 70&*!/*-% O #"*($-&(#!*', !1"&&" %"/*-% ' ' / !--7 'Q!" *!(' -'*-"@9"-#-(0/%$ "&" $!'U -"(("J "% ;-"/' 0%*'@ - 3 1!/7' $-&#!*" "'" "&" '.! ' BBA' O I'('U .0-/'#" 0&&"(J ("$0-(*-% 4-7/"'"% 70&*/@ /"'&" 26"$' ' '

'M ? " "/(' 4'*4'" 2*++" */' .*%% 40" 16-(%*'-,!"'"(%*+"' &O %#%" 0."2#"($-&(#" +"%O&' "% .-"/%#!!/(!;(%0/%-$ '(-7/-$-0/% 1-/(%'!+"/% 4'*4'" O &O-'" 2"%%" 2*-$&!"' -"(4"/(" ,!" &" 'OK #-20& "(% ' ,!-"(% #0/('D.*8'2" + *%E5 2"%%" 2*/9"2%!'"("(%%'O(@'*'%-$-"" 40"&"'/('4'*4'"'&",!"& "(%40'"'&O %O%"' O ("'-"#"('/("(%;+"%%'" #0/(&"(26" "!-'!/' $-& +#%O&&-,!"' 4!%(' *+"'" #!!/'$-&' #!!/' '!;0/' ,!"&2*/,!"&O%#%"'!'%*!%"'0!%'" 26*(" $' 'D70@&*@/-#5 " /" ("&-" 90+0-(5 0!'4&!'-"&' 1("&-"'#"(' 70@&*@/-#@< 60;-&"(E'('+ 0;'-20/% #" 70&*/(' "(' 70&*/-'"(#%O-"/%#"&O +M+"'2*++!/0!%# ,!"&"('/-;0/-"-(';0/7"'(' ?'2

'D70@&*5&"4' /" ("&-"90+0-('/!' 70@&* 0&&*/7"5 0!'4&!'-"&' 1(("4'*/*/2"'% ('&-"5 #"(70@&*@-' 0& */7#(E(' i' O 4&!(' #&".#"'"%&O 4&!('04-#"#"('0&&!'"('#!'26".0&' */'26".0&("+-%O!'70K &*4'+0&7'O,!1"&&"'"/'"#% ' 2 'Db' '**/%" O 26".0& #0/('+"('O."('"%9" .0-('&" 7'0/# 70&*4'O /#'-/*4&"' '= ' Pb' ";0260' -/#-7/O (1"/''"&*!+0'0!' 7'0/# 70&*4'2*/%'" !(07" '#"(!'2(-/' B '"'(*'%#"(90'"%(2* @ %'-;!"0!%0/%0!'+*!."+"/%#!' 70&*4',!"2"&!-#"('"-/(' ' / ' O9O 4*!"&!-'&"('2*!'%(' ":"@ 2-2"('#" &O 260((" &" 70&*4' #"('2;".0!:'&"('4&!(#*!:'O%0-"/%!/" O%-7!"5 2*++"/% (*!%-"/#'0-%@-& #*/"&"('&*/7!"('9*!+#"(' "%&"('+*!."+*!%('-'04-@ #"(' "% .-*&"/%(' 40" &"(,!"%('2*+;0%(' 4'OH@ '"/%3'(*!O' ' '. "'--'Y'NN /'%"+4('#"70K &*4'!/'2*!'% "(402"40'2*!'!'0!' 70&*4' /'%"+4(@#" 70&*4'9!(,!!O &O$"'+"' " 'A '-'

' O"":%"/(-*/' &&"''2*!'-'"&" 70&*4' ("6O@ %"'0&&"' $*'%.-%"' "&"/#"+0-/' -& .-/% -2-0!' 70&*4'(.' MY' -7' 60(("&" /O%!"&' -&'".-"/% 0!'H*4' ' 2 ,7' &-&' R'NN -7' &@ &"'!0!' 70&*4'2*!'-'"0!' 70&*4'$0-'" !/" 26*("0."2 4'"2-4-%0%-*/' & #-% $*'% 4*(#+"/% 2" #*/%"*/' /1(' ,!"$0-'" %2*!'%&" 7'0/# 70&*4',!0/#-&"(% O (*/'$0-%' 'O '-/'Y'NN -7' &&"'&" 7'0/#70K &*4'O -16#4-%O&' $0-'"(##4"/("(":2"((-."('EN 0/(!/' ("/(0/0&*7!"' ";-"/'#"/*%'"0+0/% 1"/' .0&" 7'0/# 70&*4' ' 'O ' 'NN &(1"/' .0&" 7'0/# 70&*4'-& +*!''0;-"/%#%'NN d "26/-,!"+"/%' &&!'"%'O(@'04-#"#0/('&O,!"&&"&" 26".0& "(%(!4@ 4*'%# (!22"((-."+"/% 40" !/' 4-"# #"#"-'-"" !/ ;-4? "#-07*/0& "%!/'4-"# #"#".0/%'4!-('"(%"(0/((!44*'% !/'-/(%0/%' 4*!' '"%*+;"'#" /*!."0!'(!" &"('+#+"('044!-(' -"%' ' '

3 ' "(' ;0%%!"(#0/(' !/' 40(' 2*+4&"% #!' 70&*4' (*/%#*/"0!'/*+;'"#"%'*-('(#40'O"(#"'2"&&"(' #!' 40('(!-.0/% 40"!/'2"%0-/' -/%".0&&"' 1' " 70&*4' #"2*!'("/1"(% ,!"&" 70&*4'O %'*-('%"+4('%"O(H@ &*/7"%":O2!%O %'O(@4'O('#"%"'"'1' " 70K &*4' #"@+0/O7"*!'O ,!0%'"%"+4('&"(' ;0%%!"(#"(#"!:'4-"#(' #!' ;-4O#" #-07*/0& (*/% ("40'0"('40'!/' -/%"'.0&&"' 1'NN '0/&# 70&*4' *+"!."+"/%' #" $0-%&" 26".0& 4*!"4'"/#'"&" 70&*4' 0&*4' #"260(("' 2"&!-' *6' &" 26".0& #04&*-" &-;'"+"/%("('+"+;"(70&*4' +*#0'O 0!,!"&&*(' 260(("(!'('+"%%"/% &'!'(H".0!:'4*!'(!-.'"!/" 260((" 0&*4' #" 2*/%'K %"+4(' 0&&!'" ("+6&0;&" 0!' 70&*4' (!" &" #".0/%' "% 0!:' 2*!';"%%"('(!" &" #"'-O'" NN 0&*4' #!02*&"' .*8' 'NNYd 0/("6*/7'*-('" O#"!:'*&" %"+4('("%#!!/' +*!.'+"/% .-$'-/%'*#!-%" #0/(' &O #0/(" ;0/,0-("%$*'+0/% !/"#"(' $-7!"(' #!' ,!0#'-&&" "20.0&-"'%-"/%#"&O +0-/' #'*-%"(O #0+" 40"&O %0-&&"5 &O#0+" (!044!-"(!'&!-#" &O +0-/'70!26"5 &"('#"!:'0!%"('+0-/('("%-"//"/%"/'0.0/%'0.0/%&"'/"/" 70&*4' 40('#" 70&*4'2*/(-(%" "/'!/" "(!-%"#" 260(O('&O #0+" 080/%&" 4-"#"*-% %"# 20.0&-"" &" 4-"# 70!K 26"'"/'0.0/%' H'4-"# #" #"'-O'"260(("2*/(%0+" +"/%&" 4-"# #" #".0/%5 "1"(%&O &" 40('#" 70&*4' ,!!*/'"+4&*-"O!((-#0/('#0!%'"('$-7!"('(" +"/%#0/('&O $-/0%"#!'#!!0#'-&&"'*'#-/0-'"D.*8' !' ' E' ' -'('!'&",!"&*/'#0/('("&" 70&*4'NN d -7' "% 4*4!&0-'"+"/%' O4'-+0/#"'7'*/#"'-' */"' '2".*-'/'70&*4

'O I'B'U /'26-"/J Q!-' 53 O 60'&"&"(70&*4("%&"('(0!&' '< ' 9'NN</I' "('7'0/< 70&*< U0!'7'0/# 70&*4J U-&J (1"/' (% #" ;:53 0*/' ' '4' BY'NN:!-I' (' /'-"!(' U&*!4J "/' (0!%'&O ;'";-< 4'"% 5 '0/%0&"6'"%7'0/('7H*(' 1"/'.O' &"!($!-0/% 0!' 6*(' < 'M(' % (-0&*-"/% %*% 4&!(%*(% Q!"/"$"(-((--3(&"(' 70&*(' $ ',

' ?' *8' :' ;*!'7!-7/'4*-&#5 4'*@ ."/a' " '"(407/'"% 4*'%!7' " ' -%(#' ' ""

M 'D70@&*@40@#!E' '$ 9&' ' 2%-*/'#"'70@ &*4"' " 26".0& O &O 70&*40#"$*'%';"&&"' N$ 0-'" !/" 70&*40#" $0-'"!/"4"%-%" 2*!'("0!'7:&*4' % .*!(' &O-("<'#" ;"&&"(' 70&*40#"('9" 4"/("3' !' 'A , ' / '(2' Y ' NN d -" #" +0/O7" (*'%" #" 70&*4' "/' %'*-("%" +4(' "%' %'O(@'022*!'2-'#-% 0!((-' 70&*4' #!O2*&"' *6' 0-&!'"' %'6(@20#"/2"' "(% +*-/('04-#"' +0-('4&!("&O70/%"'NNYd (402",!!*/' 40'2*!'%"/' 70&*40/%' NJ d 1"(% f %'#!' 70&*4' #"&O #0/("'NN I' *4!&O-'"+"/%' O4'-+0/#"'7'*/#"'-" ' ?'2 "

%' 'D70@&*@40/@$E' 6' ' "'+" #"'+O#"2-/"' 6%6-(-" 70&*40/%"' 46%6-(-" 4!&+*@ /0-'" #*/%&O +0'26" "(%%'O(@'04-# 'D70@&*4IE'k' ' "'+"#"'"&-"!' (%'!+"/%0."2'&",!"& */' %'02" %'6(@'04-#"+"/% #" 4"%-%"('0-"(0.0/%#" 7&0-'"" &" &-.'"5 -&' .0!%+-"!:' %'02" O &O 'O7&"' #' &O "&%!'"'4'BG V' ?'2 " '0-/(-#-%"40'2",%-"2" +*8"/' "(%":4"#-%-$

'D70@&*@4IE'(' ' *+'#*/!/O #10;*'#' O !/" #0/(" ,!1*/' 044"&&" 0!9*!'#16!-' 70&*4' O 70-*4"' !/" #0/(" (-' -' '(-' 0/-+0"' .'0-+"/% /0%&*/0&"' "% 2N 9 1 '# ' ' (2' ' DS0/.-"'-BY*E - + , . 'f 'D70@&*@4O'4O"E'" ' " '#" 70K &*4"' I' -(0!'70&*4' /' 26"-H'70&*4O'NN d $-7@ *!'(#.-' 0-*4" 40'"("('2'O0/2-"'('DH@&*@4OE' I' ' ' &&"'&"'70&*4' " 26".0& 70-*4";-"/' /' 26".0& O2*((0-(' ,!!-&0.0-% "++"/O 0."2'&!-'"% ,!-'2*++"&"('26".O!:'#"2" 408(' 70&*40-% "/' 7'0.-((0/% &"(' 60!%"!"(' '&'O' NN /'26".0& 70-*4" !" &";*4'4-"# ,!0/#-& O."&O %0+;"'#'*-%"#"#".0/%&O 4'+-O'"5 (!'&"+0!.0-(' 4-"#',!0/#-&&".'" &" 4-"#70!26" #"#".0/%&"'4'"+-"'5-&70-*4"'4'O(#!'%04-(',!0/# -&&.'" %'O(@4"!'&"('90-/;"(' #"#".0/%"/'70&*40/%' '('0-% ;*/'#!":"2"&"('26".0!%O 70&*40'0&%" %'!+"/%(!'&" 4-"# 70!26" 0!((-' ;-"/',!" (!' &"'#'*-%' ' J , ' %'-'4'YM' #0/('4*! -%(' d &("#-%#!'20.0&-"' 1"(%!/'044'"/%-20.0&-"'-& /"70-*4" 40("/2"'+"&"'#"&"#"*!'%0-('40(' ,!1"&&"5 /18 "!(("/% O0."%!,!"&&("/'$--((("/%#"2"(#0+"(',!" 910.0-(!"(70&*4"'#";*//"7'O2"%9 'A '-' ' $!!!' A A ' -7' "2607'-/' +*/%"'2'*!4" % 70-*4"0."2' &!-' ' ' ' '."NNYd 0+-&-O'"+"/% *!-'-"#"2#%"%#!0!%'"' & O 70&*4O %*!%'O &O +0@ 0$$0-'" ' & O 70&*4O 40"%*!% 0'-('4*!'"@2"%%"0$$0-'" ' F ?0'26""#!!/'40(%'"(@'04-#" *++" '70@ &*4"<T9"'/" 4"!:' .*!(' (!6'"' NN -7'S" .*-('#O9O 2*++" #"&"4-(' 70& 4"'0'(.'G Y' NN 0-'" 70K 6O%" -("<4&!('4*("+"/%' "%/" 70&*4"<40('0-/(-' S" .*!(' $-(' !/" 4"%-%"&"%%"" "/' 70&*40/%'(. G)'9!-&&"% GMMM' RI' "'+" #"#0/ " 0/("" &" 70K &*4' ' MI' ' ?"%%"'$0-'" 0&&"'0!'70&*4' /'04@ 4'-% O 60+;*'#&O +*'% #" 10;;O e' H-/%@ !2' ,-&' (" %!O'"/' 70&*40/%!/'26".0& ,!-&"9"%O'O %"" Q ' 'MB' M*2%'GMB' *++" &"!(9!-4"/%(' (*/% 4&"-/"(' -- /!*/% 90+0-(' .*!&!'&"(' 70&*4"'' " 'A ' ' " '(2')'N AI' -7' "% $0+-&-"'"+"/%' *!'(!-.'" ,!";9!!!/' H' ' */% 70&*4O' E O'%-2!&-"'"+"/%" "/'#'"0((-#!' #0/('%*!('&"(&-"!:' *6' *'4'4!% .*-" ,!"&, !!!/'*6' /'4"!%"4!% &!-' &"'70&*4*/' '#"4/-('&*/7@ %*+4('(0/(' 4*!.*-" 0%%"-2&-" $0-+*' Bd -7'"% $0+-@ &-O'"+",%' 0&*4"' !/" $"++"'&!-$0-'" -+" 2*!' 4%"((/%"' 0/#-(' ,!" #!"04'O(0.*-" ,!" #1 /7&"%"'"70-*4".*('$-&&"('#16*/'!"' %%/"04'O(10!%"' - '2 'G* '0/# O4*!'(!'0!((-' #" +0-/'20'02%O"' ' 'F'0/#!

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;0#"'408"'"/70+;0#"('408"'"/+*//0-"'#"(-/7"'
("#' $"/#"'#"'408"' !/"' #"%%%"' 40"'%*!%"'(*%"('#"'
'0-(*/(' 4*/#"'!/"'#"+0/#('-"!("40"'#"('4&0-@'
(0/%"'-"(' /'&!-' '044*'%0-%' U ' '8J &"' 404-"'U, !!-&'
0.0-%(-7/ J'-&'/"'4*!.0-%/-"'+0-('$0-(0-%'&0'70+K
;0#"'"%' 4*/#0-%,!!-&'/10.0-%4!'"(-(%"'0!' +0' @'
260&' @(% ' B' '"%%"'&*2!%-*/ ."/%'#"'2"'
,!10!%"'$*-('&"(';0%"&"!('4080-"/#"'4 07" "/' +*/@'
%'0/%'&"!'!' (-/7"' "%' "/'&!-$-!(0/%'$0-'"("('70+;0#"(
' O I'(' *!('&"(' +0%-/('&0' ;"&&"'0!C"'
-(0-7"' $'0-('"%'/*/' 60&& *'2"'4('4*!'$0-'"' &0'
70+H"' ,c ' NN :.-I' ('
S!0-+"' 0&-!"' 4*"%-,!"' (0!&%('"%' '7H-+;0#"('
? '/' YM
'$- ?'2 1 '0/2-"//"'$*'+"'4*!'*+;"
? ' D70/@;0@# E'*' $&' 0-"'#"('70+K
;0#"(' %' 70+;0#0-"/%'#"'%"+4("/%'%"+4(' 0/%' -&('
%0-"/%70-("'%'2*/%"/%(' ' ,#/' .--' 0-(@'
%*-'&"(' (!&%0/'(!044' %"0'.*-'$--'"' ,!"&,!"('%*!'('5'
Q '4*!'6*/*"'&0'$ %"' 0+;0#"<' +"((-"!('&"('
*!'(' 0 ' ! ' ' 7' +, *'(,!"
#"' 0-/%@?' #0'# *!('2'08*/-"<70-"+"/%'&0'20@'
;0-"'7'*((- '"' 0+;0#0/%'4*!'&0'7' 2" 0!'2*-/'
#!!/'2-+"%- '"'9 ' ' *!('0.-*/('#"'
&0'4"-/' 6-'-*%'"%'+*-' ' /' 40(' 2&0%"'#"'-'2'
#"' .*-' *&%0-"'/'26"+-("'70+;0#0/%%'#"' 2*& '"'
'%'04*(%'G,^60/%'&"' '*-'G&"' 'IH ' 'S7 +
' ' &@("2*/9!7!"' 0."2' 10!:-&-0-'" /
' O I'(' '70+;0#*-%' -&'$0-(*-%'&"' ;0#-/'
/,!"'*/' / ' -%'!/'4&!(' 40-e-%' &0/#-/' - ,'
4' R'#0/('
'$- ?'2 1
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' ' ' "&!-'2"&&"' ,!-'70+;0#"'
'$- ?'2 1
' ? 'D70/@;1E ' ' /2-"/'/*+'#"&0'90+;"'
"/2*"'!(-%'#0/('&"'+%' .-*&"'#"' 70+;"' 1"(%'!/'
0/2-"/' -/(%'!+"/%' "'+4 02 '40"&"' .-*&*/2"&&"' "%'
,!!*/'%"/0-%'2*++"&-"/%&"('90+;"
%' ? 'D70/@;1E'I' ' "'+"' #"' +0'-/"'
*'#07"('$-:"('40"'!/"' #"' &"'!'(' "-%' +-%"(' 0!:'
204(#"' +*!%*/'#"('60!;0/('7' 6 /"5' "%'40" 10!@'
%"'('(*-%0!%'"&-/707"'#"('(;0(@;0!;0/('(*-%0!60(@'
+ %'&!-@+ +"
' 'Y0@0/(0-(4*X#M"; '90+;0"D.*8'
,'[V(*II*'C7@6 ,;3 '$' 'K$! 'E *:DF!
'%'#1 '$' ,!"' D7" ' 26"' 0&' 'E'*8'
E!'7 A$' 'N:GIE!GI '.7!'M:DAHT'EF''FD'
F:!@E:!:!$J!:7!$$D:, G, E!$ '+ 7!$E!'!@E!:+!'
? 'D70/@;-@ E'4'/ ' "'+"'#"' +0'-/"'
*8' ?
%' ? ' '$"0/@;-@&&0''&&0'@#1'
+*!-&& "(E' +'"%' "&!-'2"&&"' ,!-'70-*(;-&&"'
? ' D700@#--@%&' ' +*!-&&"('"%' /*/'
70/@;-@8 E' /' 'NN F "'+"' $0+-&-"' "+!"&"('
90+;"("(#"' 2M%"'%'#10!%' ,!0/#" &"'(*/%'4"/#0/%'
%"(' !"'(%"'/ '.*!('4"/#0/%%' +*-7/"<#!'2*!'07"'
0-%"('&0' 26*('"' 0."2' 6*//!"' 0/('70+;-&&"' #"('
4-"#('*!'260/7"'#"' .-(07"' H'# * ' '+!@'
' '=, 'S!"'0-'.!' ,!"-,!"'$*-('70+;-&K
&"'"'#"'4"%-%"' 4"'(-#"/%(J,!-0.0-"/%4-/"' '("/"/-'
U0((-(' (!"'&"'!'(' (& 7"(' &". (J' YA ' 0%'
' I "'+"'#"' +0'-/"' "' #-%' #1 /' +0'-/' ,!-'
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(10-#7/%#"('4-"#(' "%#"(' +0-/('NNH' ' 60/7"'#"'
;*#!/"'.*-&"';*!'2"%'40"'044 '%0!+ %'"'!'$0-@'
(0/%40((""(!"' 10.0/2"'4&!(' &*/7!'40'%-"'#"'&0'
."'7!"' "%#"'&0'.*-&"'NN 0+;-&&"''P'/'("2*/9!7!"'
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* ' 1 ' D'!;-02 "(E' 7'0/#"' 4&0/%(' (0'+"/@'
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' .*!:#-%$?0/- '"#"9*!"'("&*/&0,!"&&"'04'"'
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20("(4'"+"-"'2*!4',!*/'9*!"'*/'$0-%'/(!-%"'
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/-%'0!%'"+"/%5' *!4'0!'9"'!'#1 2;"2(',!-'2*/(-%('
0!'2*++"/2"+"/%'#"'#"' 40"%-"' 9*!"'&"' 4-*/'
#"'&0'"-/"'"' %' (!"+40"'#!!/'%*!'"' #0/('&"('%*-(
!',!0%"'4'"+-"('2!4(
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$' ? ' D70@+ @&-@*/E' ' ?*-(' #!' 20^'
&"/#'-"' 0%6 /-"/ ,!-' $!% #10;*'#' &"' - ' "%' ,!-'
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."'"'#"'$".'-"' D80-%/O%-;.'#"' 80-92 O-*3' ,!-'0'04K
4*'%'0!'+0/07"' G:4*2' +0'-07"'0-/(-'#-%'40'2"'
,!"&0'4&!40'%#"('+0/07"(' ("$0-(0-"/%"/2"' +*-(E
? 'D70@+"@ 1E I' 'NN& '0/#P' 2!"&&"#'@'
;*-('*!'#"'$"'@;&0/2"' #0/('&0,!"&&"' 4&!(-"!'('+0%"@'
&*%('*!' 4&!("!'('(*&#0%('+0/7"/%'"/("+;&"'NN f "'
'&0'70+"&&"' +0/7"' &0' 70+"&&"' %' 1*'#-@'
/0-"'#"('+0%"&*%('*!'#"(' /' #"+"!'0'
#"!:'9*!'('"%%"'!(' (0/(' ":2"4%-*/' #!-%(' &0 40-&&"'
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I' "'+"' #"' +0'-/"' 0;&' #"(' *$$&"'"(' #"(" &@'
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,!-'("%' '4!-("'-1"0!'(0"' #0/('&"(' 4* &"('4*-%'
(10((!'"'#"' 1"%O%'#!'&-,!-#"'
' 's 6'(' =0+'#"!:'4"%-%(' 70+"0!-'"%'!/"'
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*'%6*7'046"' 0'2*++!/"'7*!."+ "' #"'/*%"'(2*K
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!/'0!%"'2"'/"'("0'4&!(' ,!"'#!'+ 260/%' 70'/"%'
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? 'D70@+-/E' +N&d "%-%70'D*/',!-0-#"&"('
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+0,*/'&"('4*&-"("('$!+-(%"('&"0;/,!"%-"'("%2
& I "'+"'4*4!&0-"' "%-%' +, '40(("'(*/'
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#"'/*%"' 4*,!"'(%'&"'%"'70+-/' 0'#'6 ,
' / ' j':/'N&,' ' 70+-/"' (" #-%'
$0+-&-"'"+"/%#!!/"' 4"%-%0-"' $-&&"' "(4-7&"' "%'60'#&"'
'& 6' *!(' %"('!'4"!4&"'70+-/' ' ("!$-'%--%'
' ?' ' !7*'#0/(' ' 1 '-/I'40'%'-'
A'4' %"/#,!"'2"' +%'0"'-.' "4*!'&04'"'+-"'"$*-(#"'
&0'&0/07!"' 4%,-!&0-'"' #0/('&"' &0/07!"' &-%% '0-"'"/'
BY' #0/(' !/'*4!(2!&"' -/%-%!& ' ' 2 ,7'?]
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460;"%'7'"2'U '8J'2*'"(4*/#06%"'0'/*%'"' 'D.*8' E
D& ?? 'D70@+0@'1E'I'+' "'+"'#"'<**&*@'
7-"' "/"' #"'2'!(%02 (0+46-4*#"(' #0/(&",!"&'
*/'#-(%-/7!"' ,#', 7' #-%'2"'."%%"'#"('
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2"&!-' ,!!*/'"(%'*;&-7"'#"'70'0/%-''NI I' '"("'."'MO@
'0/%-'#0/('#;*!&"+"/%#"&0+0-(*/'40'!/"4*!%'"
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/707"+"/%'40"'&",!"&'*/'(" '"/#' 70'0/%' "/#'"
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$!%'2*/2&!'(*!('&0'70'0/%-"#"'%"&&"'4!-((0/2"' "'*-
#"' 0:"'&"!'$-% '"+"%%'"%'*/('&"(' #2&0-'2-(("+"/%(
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2*++"'&0'4*(("((-*/'40-(-;&"'#"'&0'26*("' ."/#!"'
0'0/%-"'2*/.%/%-*//"&&"'*!'70'0/%-"'#"' -0-%'2"&&"
,!-'/!0'&-"!' ,!!"/' ."'%!'#!!/"2*/."/%-*/'NN 0'0/K
%-"'$*'+"&&"'2"&&"' ,!-'0'&-"!'"/'+0%-;'"'-"&&"'*!
68%^*%&-#20-'"' 0'0/%-"'(-+4&"'2"&&"' ,!-'0'&-"!'"/
+0%-;'"'4"'(*//"&&"' "%'(!'%*!%'"/%'"'&0'20!%-*/%'"%
"'##6-%"!"'20!%-*//H'NN I' -#*++07"+"/%'0!,!"&
/'(1"(%';&-7"' 44"&"'",!"&,!!!/"'"/'70'0/%-"'NN "@
+0/#"'"/'70'0/%-"'02%"'40"'&",!"&'&"'##$"/#"!"0!'
4'-/2-40&'044"&&"'"/'20!("'&0'4"'(*//"'2"/%'"'&0@
,!"&&"'-&'0'//''"2*!'('#":"'2"''NNYI' ",!-'70'0/@
%&%!/"'26*("'2"',!-&0'"/#($-'"' ."/%'#"';*/K
/"(' 70'0/%-"(' *!(' +"H4'*+"%%"'< #"' .*!(' ;-"/'
2*/#/-'"5 +0-(' ,!"&&"' 70'0/%-"' "/' 0-@9"3' *+;'"
"%'/*/'40(' +*-%1"/'#*-%'&0'70'0/%-"' J '#'
0' "!:",!!-&'0'044"&#('"/'70'0/%-"' /"4"!."/%'40(
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&*-('*#-"!("('/'70'0/%-"'#"(02%-*/('&"('4&!('$-26"('
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+-"'"('2&0(("(' ,!"'4*!"&"('#"'6-;'"(' ') $'
' :-<'A'NN 0'0/%-"'-/#-.-#!"&"'&0'4'*%"2%-*/'
,!"'&0'&*-'#*-%$-";0,!"'2-%*8"/'SN 0'0/%-"'#"($*/"@
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4*!'(!-.'" (0/('0!%*'(-(0%-*/' (4;"-(#"' '!"0!'#"'
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7 :.'I'(' "(%-+"'$0-;&"'7(!0/%-"',!"'&0'+-/"'%*!@
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&0'70'0/%-"'$0-'"' $*'%!/"'2*!'-' ['-(,!" %
+-&&"'0!%"'(%"'+"("/'2"%%"'6%,*/'[',!*8'*/'2*/@
/*-%'0/9*!'#!8'!/"' ;'&&"'0+"' 3 ' -&' %
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1 /7&"%"'"' "%'&0' '0/2"' */%'70'0/%-'2"'%'0-%;'
& d?(!'"'4*!'!/%"+4(&0;*/%;'&0',!0&-%;'#!!/"'
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@ '*/'H%'"/'!/'("/('0/0&*7!"'"+0'260/#'70'0/@
%-%' ""('70/%('#" '"/*;&"'1"(%@-@#-'" ,!!-&('("/%'
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#;$0 %' YI' 0"':%"/(-*/'"/#'"($-''-/#!;-%0;&"'
"2*/%'#&"'70'0/%-%&"'%-%'"#"('4-;2"('#!*'"#!0'@
7"/%' "&0 .*!('70'0/%-"(' "/'(*:;&"' %'%*/('&"('
#-"! '"/$-/%;+*-/(#"'/*('%"/#"'"(('(' 0'0/%-'*/%
&0'$*-'#"+"('(0-/%"('4*"+"(("(' 7'0 ' .-'
Q!-'4"/%'.*!('70'0/%-",!!/"';.*&!%-*/'(!;-%0&"
.*!('$"'0 40(' ":4-'"'3@ ' ' $ " '
7 I' $$&'+"''2"'%-$-"'' 0';&"!'9"'&0'70'0/%-('#"K
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2",!!0!'$*/#'&"' (".-%"!"'4"0%' "%"5 ?0-(' 4*!"
6*-+/"'#!6*//"!"9"'70'0/%-('&"'+0&%';'+' '*%'-'
V& *!"'2"&0'&!-';4*/#-(@9"'9"'.*!('&"'70'0/%-('
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V6.*8&(5+(#(9"'/!0-'4*-/%'70'0/%-'2"%%"'.0&!0K
%-*/520"9"'2*//0-('%';(@4"!#"'26 ("(,!"9"'.*!@
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#"' %*!%"(' 4*!'(!-%"('NN /#"+/-("' ,!"-,!!!/' #!'
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70'0/%-%#!'$'*-#'0'0/%-"',!"&,!!!/'#!';"(*-/'"'
+;+"'Q!0/#'*/' +1*$$"/("'0-%'+"'4*!'0-%'70'0/K
%-''? ' ' "(0/7,!-'%0/%#"'$*-('70'0/%-%.*(
+!'0-&&"(' '/'X' /.0-/'#!!/'(*'% (-
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2"'%"'.*!('"/'70'0/%-'' ' &"I'-' X'SN ;(*&!@
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#*+0+07""'S"'/1"/%"/#('40(',!!-&'U1"/$0/%'0-&&"/@
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8 '("'0-"/%#H'2*'!4%-/'('#!'+*
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#!6;'*/'0-#'0-*/('#"'2"%%"%"'+"#"'%0-'0/%'(!'+"
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F 0&&"+ +*#! & 0'"/ 70<*/
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7' &"("%2*!'%"(,!-$*'+"/%70<*/
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%-/ '4' ."/-"&"(":4&*(-*/(70<"!("(#0/(&"("+-/"(
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- ,>#? 1.'/*("&-"9O+O-(5 O!'4&!'-"& 1((" &-">#"(9[&-[&c O2%-$(E'P' +' 2*/2-""7" #!!/" 4'-(*/' -2[*/' #O/(&" #"'/-"" #"("(4&O-@ #*8"'(2*/%' "[(4"-/% &O 2'!"&&"O.O'-2" #!!/' 7"* -"" ,!- +"%%O-O [4'-:&"(&O//"("% #O *!-/"4"/' !' &"-6-(O-%O2&-%"'26[@ '"+"/% &O %"'"(*&" #"(%'"!' -6-(O-%O2&-%"'26[@ '"+"/% &O %"'"(*&" 2*+"("%*#" .*-$ #"+";'O(&"!("/"/$O/%("/"'!#" -'"+*!"+" 4*!"&" ;*/'"' 4*!'(!-.'" #!' &O %"'" "% &O 26O!##" +"'"+!"%" -/(%O!'"" ! &O 7'[4:"/%"(,!" 4'"/%"'"+'"/O&%" &O %*!"" S *!#'"%"%
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1 %"/##!'/*'#O!'(!#'#" "(% '*!"(%'"%2' "%%"
2#%" *22-#"/%O&"#" + '-,!""(% ;-"/'2*//! 'O!
#"& '#!'204' &O/2' ,!-'7 ' "/.-"*/'(*!('&" YI'#"7'
#" &O%-%!#"' " 9' >7" ' ? ' :>, /
%':---'4' aMR' #0/(' " %N I' -@7-%'$*'+!&O'
#"(' 4-%046"(' -@7&%' *!-'7-%' 40" &O' +*';&"!' "
20'#-/O&#" -26" "!5' % " ,!-'20!(" +*/' "//!-'
?O'4"/(-*/'7-%0."2'&!-' ' #0/(' &" *'
'"/2"5' %2"4"/#0/%&" "(!&' * '" 8'7-%'g' '
<" ' ' !'4-"#' #*'2"% O!%"% (%'!2K
%!"'7'*((- '"' -%(0/('4*+4"' "/$"'+ ' #0/(' %+"
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'-&O-/' 0((O-(*//"+"/%#"%*!%2;' '"7O&'9"' ;"' &O-((O-
4O(#"' +O/7"' #"(#"!:' 2#%"()' &O $*&#' 2*++"'"(
2*26*/(+O/7"/%&"(7&O/#(' %;(*"' 2, ' &
' ' M' '7*#%"' !/"' ("2'"%"' (O%-(&O2%-*;' [' 2*/@
%"+4&O" #O/(O/' 7&O/#&"' 7#'+"' #!;$& /O&%'O #O/(
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1*+;'"' "//"+-"5' !' ;-"/%#%' O$&O+[' 4';(#!!/' '-K
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' ?' /".' "'8' &&!/#'
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$#OO.*2' *+4' &" O/(2'-4O-O/O^' ,!-%*+;"#"'
4O-'%*+;"'
V$%' 'D7&O/@#O@9IE ('+' '*-%#"7&O6@
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'O !'(' "(4*!'2"O!-'7'O('"%*!'/"< #!'
7&O/#O7" */%'7*'7"< "% +-(4*!' &"' +"/O7"' /'
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+"-&&"%%'"&O -/""' ' ,F '4' #O/(!
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+[$O2%-*/' #"(7O/7&-*/(&8+46O%-,!"(#" &O 7O@
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"&&"($O-/["((*/% (-'O4"(,!!"&&"(2*''"(4*/#"/%
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8 /.*8"&"(4*'"(['&O7&O/#["&"([26"'"#O4(UO
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2*'4(#"(!;(%O/2" ,!"&,!"$*-((4*/7-" ,!"'(%*+
,O"&,!"$*-(#!'"%#"(' ' 3
' # $' -+-/!%-$#"%O/%4O'%-" #"'4'*."/,'
"(4O7/"%-%O&' ' #!'&O%-/' , 'O+87@
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"'+" #!O/O%*+-"' Q!- O &O $*'+"' ,!-"(%#"(7&O/OK
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&"!/'#-+"#"'-"!"'0!%%"+"/%-"'"&""'&Ơ60!%"'
#"&Ơ7*'7"#"'&"'!%"7'0/#"0;;0/%""!/'#-%"-"(((
&"'#!/"'"("&"+"!/"#"("(26'&"'%"#'0%-*'%"/0
0.0/7"'&!-0!&0-2%"(0/%#"20!'"(0!((-%"2/"0/
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&"(,!0%"#"((!'2-%;!'"%20'!-/"&"&"/'
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&"("7*'7"(2*!4"%0-'%"(1"'#"(4*!'&"!/'%"/%"
!0;*!'2'#"&"!''"2*/(-0/%"("#!'"/#"(-%%%&
&Ơ%(*%"("#!'"/#"7*'7"'+'#!,"-%"7%"/%'!"
40'%-"/%*!'0-%"+"/%/!"#"(0-/"'"&Ơ#"/%'"
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&"!"("#!4"(!'2"/%"%*-(!+"'#"+*'/"
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*'"+"/%!/"(&"/"/%0%"7'"4&"/("/%&"0/
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R

F3 B:5 :2 B2E 254B ' 5 G:5 ?92 ?5 + 4 : +6 32B9M
3 J928 49 ; 9E 8 " ' = ' ?& ' A :43
[G: ' B252M 3:9@:9B8 +2 < B3' 49 G:5 +3 3:93
+2 ; :542 ' + ' 5 R B2E 254B ' ' " ' % ; .3'
6CCC' 293*:5 E: B +2 J: 3 <9B ?9 54:5 ' +2 .:29B
.:BB: ; <9 6 '0 ' ; ' ' > , / '
3' B3' <' 6NF 4 58 ' G8:+9 ; 253' : 3 82
4 3 8:9E25+ <:9B G:5 J:+3' 28 +: 8 +28 B2J 28 49
J: 3' ! 5?92B 42 J:93' '42. 425.2 49 J: 3' '
; J5 .25.2 23 +2 J: 3 <B'8 4GB253 ' .28 G328'
' 5R ' ?9 8:' B2<BG82532B 4495 .N32 +28 G 258
8 58 5: ; GB2 ?9' G89+3253 42 + ' E 5 32 42 " +2
+9A2 54983B 2 +28 B38 +28 ; :428 + ' <:+ 2882 +2
J: 3 23 4495 93B2' 9A 5 +5 8 ?9'
5 88253 42 :BJ92 + 42 .2B3 528 5 3 :58 + ' < *
2882 + ' < 9EB23G ' Q <' > " ' 7 7 ' 7' ' 93
+ ' . < 3 +8 4495 JB 54 B:R 9 ; 2 <:9B R G3 G+ B + '
Q+2 ; 29B2 49 J: 33 25. :B2 5283* + +2 < B3 J2 ?92 49
3BG8*<23 3 5: ; GB2 ' 23' " ' 2 ')' ' 2
2 ; <+2 49 J:+3 + 3B2 4495 :<98.9+2 42 ' 52
; G<B 82 3BG8' : ; ; 952 2283 42 .:5 :54B2 +2 +9A2
E2:+2 J:93 ' ' ' > , / ' 3' A
<' 6 Q' 2 J: 3 283 25 ?92+?92 ; 5 G.2 +2 ; .B:K
8. :<2 49 @9J2 ; 253 2283 +9 ' ?9 ' ; 23 +28 <23 38 :G@238
" 8 ' <:B3G2 23 828 :<2B 3 :58 .: ; ; 25.253 : ' 8 B
BG3253 .2+28 49 42B5 2B >' ' :988' 4+' +6 '
' 9EB J28 42J: 3 :9EB J28 :G@238 ?9' 52 8253
+8 ?92 <:9B JB2 ; 253' <:9B B: ; 2 ; 253' L :328
42 J:43 E:R' ' LC B3 :9+ GB2 ; 253' :5 J: 3
82 4 3 42 + ' .9+3G .?9 82 :9 55G2 ?9' 5:98 3
4 8.2B52B "*<B:<:8 + ' .:5E25 5.2 42 32+2 :9 32+2
.=:82 42 32 :9 32 J25B2 42 32+2 :9 32+2 ; *
5 GB2' +2 52 3B:9E2 < 8 .2 <B:2G4G 4495 3B:< G:5
J: 3 8 E' 7'>2 E:98 3B:9E 8 42 G:5 J:43 4 E: B
3 8' <29 4 33253 :5')' 42 8' <23 328 .=:828
= ' +, ' "6 ' L ' 82 4 3 4 58 +2 ; G ; 2 82588 428
.=:828' ' B23B 32 43 3 42 G:5 J: 3 25 .2332 . B
.:583 5.2' L ! 9E 8 J: 3 82 ; <+: 2 4 58 +2 8258
:<<:8G' ' 2 3 G32 42 ; 9E 8 J:43 4 58 832B'
' F] 253 ; 253 4 <<BG. 3 :5 <B:<B2 " .= .95' '
52 93 <: 53 4 8<932B 89B +28 J:438' 28 =: ; ; 28
:53 428 J:438 4 GB2538' 2+:5 :G@23 4 E2B8 +2 J: 3
283 4 GB253 ' C ' BE " Q +2 ' 882
9 J: 3 <9G+ .' B2J+2B 3:98 828 <B:@238 9 ' '
' E 6' ' @2 89 E 8 ; :5 J: 3 @2 8 9B 8 :4
G932B ' ' ! ' ; 6' # 283 <+98 <:9B .2+ '
82+:5 ; :5 J:43 ?92 E:98 ' 8*' ' E
" ' 2 ?9' +2 .= B ; 2 2283 ?9 E: 3 ?92 E:98 ; *
; 2M ' 3 53 4 ; 3 G <:9B ; ?9 + 283 B E' ?92
:5 8: 4 58 8:5 J: 3 8NE' M ' 89 E 3 8:5 J: 3
8 58 BG +2A :5 ' 9 ' AE ' 52 E2B39 49 J: 3 49
; :542 ; 2 82B 3 898<2:32 ' < " * '
' 52 " ; 2 825822 ?9' 52 82 .:549 3 5' < B
J: 3 5' < B 8253 ; 253 5' < B . <B .2 '
, ' ' * , ' E2B39 ?9' 5283 ?92 4 58 +2 J:43
58 8 9B 3 82 8:9325 B ' 0 ' 6' 5
E 5 E:98 +28 E2B3 B2M ?9952 ; +2 E ' 3: ; G2B '
?9952 @2952 <2B8:552 283 89B +2 G:B4 49 <BG2
< .2 ' ?9495 23 G+ 882 ; 253 93 +2 E' 5@ 5?92B .2
52 8:53 < 8 428 ; 82B28 42 +29B J:438 "
&, ' L 7 5.+ 5 3 :5 ?9:5' ' <:9B .2B3 528
.=:828 23 <+ 8 B ?9:5 R 3B:9E2' ' 5283 G+2882
2J +2 " 5:8 5 B 5 328 8 <+98 8 J28 4 8.:9B8 52
8:53 ?92 E 5 3G8 3 5:8 8258 .:BB: ; <98 5:53 J:43
?9 ' 428 :B49B28 6' ' 6' +2 ' +9 3:93 .2
?92+2 ' <9 33B <2B 42 B: ; 58 E2:' 3:93 +2 J:43
?92 4:552 + ' 4 .9+3G 23 +2 <+ 8 B 42 3B: ; <2B 8GE'
% ; ' 6 $ ' 2BE 98 9+ 98 ?9' 4:55 ' . : ; ; 2 95
<B2 ; 2B J:43 4:' + ' + G2B3G 9 <29<+2 B2 ; 5
' A ' D E +' <+9 " 29 42 +9' .:582BE2B
+2 J:43 8258 G+2 42 + ' < G3G ?9 E +' B25:9E2+G
4 58 8:5 .:29B " ' & ' 2 ' +2 <2B4 3+2
J:43 428 B: ; 58 23 42 +29B8 428 =GB:8 ' ! ,* '
C ' 5' 49 J:43 " 82 B2 E: B ' ' >2
5 ' 42 J:43 ?9 9A <+29B8?92 39 ; 2E: 8BG< 54B2
'> ' ' ' +8 8 ; 253 +8 8:53 4 58 +2 J:43
2 8G<:982B R *3* B 25 " ?92 42 :B3 5 39B2+
7 ' # ' 8.' C' +2A 54B2 9 ; +29
49 39 ; 9+32 428 J92BB28 .:582BE 3 3:9@:9B8 49 J:43
23 42 + ' .9B :8 3G <:9B +28 8. 25.28 '
:52' :> , / ' % ' <' YMM' :98 ?9' < 882M 8 58 .2882
49 J:43 42 + ' E2B39 9 J:43 49 ; :542 23 428 <+
8 B8 ! ' $ * ' 5 ' + 88G " .2B3 528
" ; 28 4495 J:43 42 E2B39 <+98 B2+2EG :9 <+98 B:9K
.=2 3:9328 .28 < 29828 42+ . 328828 ' & 1 '
' * * ' B ; 289B2 ?92 +2 ; :542 825 9 3 23 5:98
G.= <<2 :5 .:9B3 <B28 +9' E2:' <+98 42 J:43 ?92
@ ; 8 +2 +:5J 98 J2 ?9:5' 25' 3 5 ' 82BE'
?9' 5:98 +2 B254B2 <+98 5G:288 B2 ' & / '
! ' 2B8 ?5:= 5329B8 2A .32 <B:82 >2 52 ; 2
G:B52 <: 53 " E:98 E: B ?9495 J:43 283 <29 42
.=:82 2 9A* B38 @2 E:98 5E:?92 3:98 '
9 " ' , ' 2 J:43 42 + ' 260((" ' 42 + ' <G.=2

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4*! (' ' /%'"'"/' 7*#%' 2*++"/2"" ' ("' 4&0-'"
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' +*- !' .-"/(' #!"/%'""/' 7*#%' ' 0 , '
' A ' -'" "/' 7*#%' 0.*-'" "/ -"'#; (-'' U 0-'" ' !/"
26*(" 40" 7*#%' &0 $0-'" 4*--" (*/' 4&0-(-'' NN %'"0!'
7*#%' ;%'"#" 7*#%' ;%'" 2, /$*'+" 1" / .-" 0!'#; (-''
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' ' ' ' " * ' -Y'NN ' "/#'" 7*#%' ' ("
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+"/%' '&"(' "26"26"' " 7*#%' ,!!"&" 0 4*!" .*!(
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' 1'M' *!(0.*/(4"#!' &" 26".0&-"#!' ' !8'
+0@*"$*"% "/' 7*#% #!' ' *-' ! ' IY' IRI' #0%;
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&0,!"&&" */' / " ."!% 40(*!' /" #*-% 40(#*/ /"" &"
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910- .!' &"!'(0!%'"!'("% &"!'(46-&*(*46"("(*!%"/'-"
&0 7&*-'"#*/% */ /"+$'0/,0-("+-"" 40" &"!'(7!""'"'("
' S' **((' ' ' ; (*&! +"/%' $-&;70/2"7'; " ! '
07'; +"/%' / *!.'07" $0-%" 0."2 7*#%' 0 +07/-$-K
2"/2"' "% &" 7*#% 4'; (-#'; "/% ' 2"($;%"(' NN " 7'0/#
7*!%' +0/-;' " 7'0/#" %' ;&" , ;" #0/(&0 &-%%;'0%!'"
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' # ' IABR' >, /' %' :---' 4' ' ' ?*-
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044*%;' #" 1;2*%" '*+0-/"' " ' 1'4' fMY' "(02@
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7*#% #!' 260/% (!" 2"(":4"&&"/%(+*#;&"(' K' '
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0'%-(%"' &" 20'02%"' "" #!!/' (-;2&"' "%2' "(."(#0/(
&" 7*#% #" *'/"-&&"' "!'(*!.'07"((*/%$0-&((!"
&" 7*#% #" 10/%-;" +-!%-;' ' !8% ' N " 7*#%' /0K
%-*/0& 7*#% 40'%-2!&-"'' 4'*4'" 260, !" /0%-*/
' "+" #" ;"0!:@0"%(?0/C" 7; /;'0& #!!/"
;2*&" ' " 7*#% $-0+0!/&0 +0/-;' (-" ' 4"-/%!"" (&0@
+0/#"('N 0 +0-&-;'"+"/%' #0/(&" 7*#% #" (" +;0;&
' 1;%0-% !/' 20'0"%;'" ' 4" ! 4'; #0/(&" 7*#% #!'
$"!' 2*++" #" *26"(%"' 9 ' W' S' "/%'"@
4'"/#(!/' !*!'4'*"' ;#0/(&" 7*#% #" 7*#% "($'0/("(
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0$$0-'" +26"' "%' +-/;' "#*-%' ; " ' * ; -;
' ' :'.i(' *++" 2"&!- ,!- "(% (0-/' #!'
2*'4("% 0 ;-"/%' #-(4*(-' " 7*!%(' 9!7" ;-"/#' "(0@
."!' (' ' > ' :-: ' NN: . &i (@N 4'" +-"7*' (%
, ' 91"!(0!: &- '"(' -C ' C& ; ' ! .07' %9"

J:983 95 <29 < ?: 5' 5' 0 C' 28 B9 38 8253 '
5:83B ' J:983 +"(+"' 2M.2+2538 " ' ' JD; ' 9 3
28<B:9EG + ' E:9B 49 B:R ; 8+ ' + G2B3G ?92
J:983 2+2 0 .: ; G 25' 2+2 283 4:9 .2039 5825
B 25 ' 8 ' # / , ' / ' 93 ?9 +8 82
<+ 8253 42 8:5' <+ 8 B ?9 +8 + 88253 +29B J:483
<:9B +2 8 25 1
- ' (++' B:E25?' ' . 3 +' , P 28< J5'
J3383:P <:B39J' ' 3 +' J983:P 49 + 3 5 J98398'
; :< B2M +2 JB2.' 4 / / ' J:432B & <BG8 9J' 9B
5:9 H ' <' 6 , , ' B2<BG82532 +2 M254
+ ' J:43 49 E2BG8 + ' 25 58.B 3 / ' J:432B'
<< 23 9B3 98 B 33 .=253 R248 E 9 58.B 3 , '
; 2B 3B:9E2B G:5
6' + 0 ' QJ:9*3G 3G2/ " ' ' ' J: +
32B' <<BG. G < B +2 J:43' 9 E 5 J:43G < B 95
.:55 8829B' L B:9EG G:5 JBG G+23J ' E 2 .:5K
32 ; <+ 3 E2 ' \ G J:43G2' :88' ' C' + 5R '
<: 53 2942 + EB28 <+98 JG5GB +2 ; 253283 ; G823J:4
3G8 ?92 .29A 42>:8G<=2 + ' 3B 49.3 :5 25 5:3B2 3 5
J92 25 < B93 4 58 95 32 ; <8 :4 932 42 ; 2 +29B28
+2.39B28 +28 B: ; 58 G3 253253B2+28 ; 58 423:93+2
; :542 2+2 .:53B G9 ' G2 9.:9< " B2 3: ; G2B .2
; 9E 8 J:43 ' * ' + E' AAE .=' 0
B3' 6)' ' ' 0 $9' 3B:9E2 . .92 + 23 2.3 :5 2<
< B+ 53 428 <2B8:5528 2 <B 5.2 42 B958X .\' '
G3G .' :B3 J:43G 23 :B3 G3G 42 3:93 +2 ; :542 23 +
+2 ; GB 32 5 ? 233B8 3 ' @9 56CNN
$ ' J - 8 ' QJ:4*3G/ #' ' :R' 7 D
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49 J:43 .2 ?9' 283 8 E:9B29A' ' J:932 .2 ?9
; 9J2' @L G8:+9 ; 253' + E +2 8 58 J:432B' L 2 4 3
988' 428 .=:828 4:53 :5 52 @9J2 ?92 < B & 4:B 3'
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25 ; 233 53 4 58 + ' G:9.=2 952 <23 32 ?9 53 3G 42
.2332 .=:82' 2 .9 8 5 2B 5 ' < ' J:43G .2332 8 9.2'
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[illegible]

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- ' 'O I 8' +98 JB . 298 283 958 <23 M 4:58
M 852+2 ; 253 HE 321 ?92 958 93B28 JB 58 5&283 ?9'
283 ' < 52 4:5 8 9 ' <' ' +
H 2B321 283 <+98 JB . 2982 ?92 5&283+ ' B:82 25 ; 0
' ' ' 9 ' &+ 88 2B253 +2 B:' 23+ ' B: 52 3:58 4:
+ 58 <:9B :2R8+:B 8523 +M ?9' ; B8 283: 3 8:9B
2 J2 42 82 M2 58 23 E: 3 283 ' ; 2BE2+28 8 J28 2+
JB 88 2980 ' ' %' LQA E68' 2 +283 JB2 *
G+2 23 JB . 29A0 @233 N ' L' AE68' 52
<:9E: 3 B2 <+98 G2+2 8 8:5 5' <+98 JB . 29820
88' ' ' 3 3:9328 : 8 293* + .:5:+90 J9&:5
+29B 2B: 3 + ' <+98 JB 3 29.2 B28<:582 ?92 B2 82
<:9BB: 30 ' -3$' YB ILAE 68'
5 @:9J JB . 29A 23 B42 D.' +2J2B0 ' 583 3' 7"%'
B . 29A H?9' 3 JB .2 X A E 5.980 ' "'
2 E 5 82 ; G+2 ; 2B 9 ; e42 23 JB . 29A 9 8 50
% ' 5J J2 52BE29V 23 <9 88 530 .: ; 2+2
B 5?: 8 283 JB . 29A0 42+ NW30 - 8W ' 4 ; :528
3 5' +2 <29<2 4&2+ B20 5: ' < 8 +28 <+98 JB . 29A0
; 8 +28 <+98 8< 28 23 B J:2B29A ; 242. 580 s
- ' (!' B:E25^0 ' 28< J5 ' C'
3 +' 7 ' 49 + 3 5 ' 42 ' JB .2
' QJB *8 *+ *3 /0 ' ' $9 + 3 ' 42 .2 ?9'
283 JB2+2' ' JB . + 3 ' 42 + ' : A
' ' 3' * ' 42 * ' JB +2
j' ' QJB *8 *:* &/0 ' ' : ; '4&952 E B 3'
42 <: B2' B . :+2 4& 3 0 +2 G:5 6 4&23 '
.:+2 4&G E2B0 +2 G:5 .= 3 25 4&= E2B' + ' 283
5: ; ; 2 JB 3 :+' 4 58 +2 G3.3 :55.4B2 42 B E:9A
23 25 :B ; 54 2
' QJB *8 *:*M:/0 8' ; ' :9 G5 42 + '
.: ; 4 2 28< J5:+2' IL&,' ' 2 ' JB . :8:8
- (!' + 3' ' JB . 29A
3' 0 B ' QJB *4 *3 0 3 *E&/0 6' 2B ; 2
4 4 .3 ?92' $9' E ' < B JB 9 3 :5
- ' # $ ' :R0 - P <B:E25^0
' QJB *4 *8 : P 25 E2B80 42 ?9 3B2 8R+
+ G28/0 8' ' IL 6 88 J2 8:..288 ' 4&95' 3 3 ' 95
93B2' 58 9.952 42 .28 JB 4 3 :58 58258 G+28?9'
; 25253 +28 8 8:580 ' B ' ' 2332
JB 4 3 :5 4& 3B28 ?9' 8&2+ E253 42<9 8 +2 <+98 + J2B
3: ; 2 @98?9&' & 3B2 89<B2 ; 20 2332 .G2+2 42
& 5 5' B <<2 4& 4 ; B 3 :50 - ' ' '
' ' 2+9 * 'H! B8I 3 8:5 3:9B 25 429A 580
>9< 32B 8:5 E: 8 5 25 4:9M20 39 ; 2 25 3B25320 23
25.:B2 39 ; 20 +2 <+98 +: J5 ' 42 3:980 5&283 < a8'
JB:8 ?92>9< 32B + : 283+ 'J5 4 3 :5 <B 325492^ G' G'
:98 E:R:58 < B3:93 428 JB 4 3 :58 253B2 +28 3B28 P
; 8 &:B4B2 42 .28 JB 4 3 :58 52 5:98 283 25. :B2
::559 ?92 3B 8* ; < B 32 ; 2530 ' '
' 50 N' LL 6 B3 .9+ 2B2 ; 2530 ..B: 882 ; 253
<B: JB288+' ' JB 4 3 :5 42 + ' 82 283 8258 G+2
42<9 8 + ' <: 538 49 @:9B @98?9& 9 +2E2B 49 8:+2 + ' 8
82 <B B253 42 < B:+280 230 <B28 ?92+ ; 2 JB 4 3 :5
4& 5@9B280 G B<253 2B B2< : .= ' ' & GG ' +2 ; 53
?9& + 3 3 +8 4&95 ' ; B2G 54 G 5?923: 93 2B 42 + '
:.=2+20 ' - ' ' <'"7C0 LL ' 2B ; ^
42 B= 3:B ?92' J9B2 < B+ ?92+2 :5 ..9 ; 9+2 <+9
8 29B8 32B ; 28 :9 <+98 29B8 4 28 ?9' 25.= B 88253
952 9B & 93B2' ' + 3 4 B2 H4 58 :42 42 : *

+2 5 89B + ' <B 82 42 ; 9B ' ' E: 8 5:8 .:G:B328
8&: 9EB B 95' + BJ2 .G2 ; 5' ' 3B E2B8 +28 4 GB 8 428B:
.=2B80 9 ; + 29' 428 B ; 28 GB 8 28 23 89B 428 ; :B38
253 828P +:B8 + R' 9B 3 29 42 + ' JB 4 3 :50 42 + '
E B 32 23 952 ; J2 32BB G+20 9 ' ! ' '> @
, ' IL"0 2B ; 2 42 <2 539B2' 88 J2 5825K
8 G+2 4&95 3:5 ' 95' 93B2 //%6 +98 < B3 .9 B2 ; 2530 0
25 <2 539B2 23 25 8.9+<39B20 B3 .2 42 .: ; <:8 3 :5
< B +2?92+ :5 3 8 + B +2 <2B8:55 J2 5 +2 JB: 9<8
<B 5. < +0 25 + G+ 88 53 JB 492+2 ; 253 + ' +9 ; B20
&2A<B288 :5 4 58 +28 93B28 J9B28' ILF]' 5' B.= K
32.39B20 4 8<:8 3 :5 42 <+98 29B8 < B3 28 ?9 0 B 5*
J 28 < B 42JB28 :9 +28 9528 9*428898 428 93B280
8R ; 3B 8253 < B +29B8 :B ; 28 23 +29B8 :B52 ; 2538
' C' 5 ; 98 ?920 ; 2+:4 24 58 + ?92+2 &2A<B288 :5
; 5320 <:9B 58' 4 B20 9 ; :R25 4&952 <B: JB28K
8 :5 42 J9B28 ?9' 82 B288235G+253' U 8 J5 2 988'
+ ' <B: JB288 :5 49' ' :9 ' 9' ' 23 9
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&0."!(' , ' + ' YM)
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' ?' B:E25^0 5 3 +' 7 5
49 + 3' A ' R 53 <:9B B 4 . + JB 4 ?9'
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' D7'0@#1E' ' '9E F "7' ' #" #-7/-%8'
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4*-/%&" 7'0#"' ' &0 /*;&"(("' '# ' '
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!'4"!$@ %'" 0."3@.*!(++*(' 4"/(' , !1-& /" $0!%'
+ ' C ' + ' R' *+" "/$-/' #" %*/' 2;*-:"%-"/%@"&&"
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&"!""(4*-" 8' .S% '02,! ' -' (!-.0/% &"!" 4*(-%-*/'
#"4!-(!/' (-+4&" 7'0#"9!(,!!'!/'%'#/"5(*-%,!1-&(
"$!!(("/%2 $ (4'"/#'" 1"/%;*!(-0(+" #"(*@
&*/0-(' ' R' IL ' + (" #-% 0!((-
#"('H 7(' !e '"(%0-'"(' + 8' 0 %'*-(7'0#"(#0/(
1!/-."(-%" > ;02;"&-"' ' &-2"/2-"' #4"%"!' ' "/#'"
("(7'0#"(#0/(!/-."(-% ' N I /2-"//"+"/%'
&"%%" , !!*&" *;%"/0-%" "/' ."%!' 2*/2!'(7'0#"(, !1*'
0.0-& 02,!-(' -7/-$-"' 9"%"(("(7'0#"((!" !/"
0; ;08"' ' /' ' #*// ' "/' 7"*+ %'-"' %' 7'0#"'2"/@
%-"+" 40"%"' #!' ,!0%'2"' "&" "' 7"*7046-"'
0!' #"7' ' 2"/& (-+0& ,!" 1*/'0 %' ;%' !/' -/(%0/%#"
(!(%--%" 0!' #"7' /*/07 (-+0&' N$ *+' #*//
0!((-' ,!"&,!"$*-(0!:' #-.-(-*/("/%-7'0#"(#"(+"@
(!"(,!-' #"-.-(0-"/%0!%' +"/%' 0/(&" %;"+"@
+"%"2"/%-7'0#"' &"7'0#" .0!%&"(M #!'#"7' #"
"0!+!'
- ' # ' O I 8 &2983 E:9+9 B2.2E: B 952
JB 42 5&2983 <258 ' 25 283B2 G 25 4 J520 ?
') */*2"< # ' R
- ' # $ ' 3' ' 42JB 0 42 + ' ; ; 2 B . 5'
?92 ; B.=2B0 B <<B:2G ' E2.' B 8:5 42
+2 ; 54 * ' ; B.=2B
QJB *42/0 G6' ' $9' ' 95 JB 42 4 58
B B ; 2G' ' 3 B2 JB 4 0 5:5 JB 4 ' + 52 82 4 3
J9 B2 ?92 428 JB 428 5 B 29B80 42 .29A ?9' 8:53
; B?928 < B 428 J + :58
3' ' QJB *4 + 0 ; :9 + 28/08' ' 2B ; 2
4& B.= 32.39B2' 8<2<2 42 42532+9B2
' QJB *4 5/0 ' LI 6 23 3 42JB ' ?9&:5
; 23 89B 95 932+0 89B 95 G9 230 23. ' <:9B R' <+ .2B
428 .= 542+ 2B80 428 329B80 23. ' 5 G9 23 25 3B
4 58 <:B3 +3 E 5J3 ; +2 E 828 :9 <+ 38 4&: B0 9
0 * ' ' 14 ' ' IL 2JB 8 42 <+: ; G :9 42 < 2BB20
<B 3 ?9 8 4 58 +28 G9 238 4&2 9 23 +28 . 8. 4280 :9
&2 9 25 3: ; G 53 :B ; 2 428 5 <<28' L ' 5.8 4 8K
<:828 25 3 J280 < B 2A2 ; <+2 4 58 +28 ; <= 3=
3B28' 2 ; :542 283 95 E 832 ; <= 3= 3B2 :9 := .95
283<+ . ' 9 G 8 B4 89B 8:5 JB 4 50 9 . ! ' >2
E 8 'G:93 4&952 + 2 4&:B 5J2B8 23 42 . 3B:55 2B8
952 28< . ' 42 + .2 ; ; 2582 253:9B 2 42 JB 4 58
.:9E2B38 4&23: 28 <B . 29828 ' 3 4 ' #* '
' IL B 2A3258 :5'>2 .: ; ; 25.2 ' JB E B .28
JB 4 58 42 .:+ 528 ' 'H ' ' A 'LL G8:
+9 ; 253' 28 JB 4 58 428 .+ 8828 428 +R. 280 ' 3 3
25. :B2 89B +28 JB 4 580 ?92 4 @' + 3 ; : J5 3 428
4 8<:8 3 :58 ' ' <: 8 2' ILF0 2B ; 2 42 @ B4 5 J2'
B 4 58 42 J M:50 ; B.=28 :9 42JB28 B2E 398 42
J M:5' "I 2B ; 2 42 ; 528' B 4 58 325E2B8 80 :9
EB J2 4 58 +2?92+ .5' 2A<+: 32 25 :B ; 2 42 4288:98
4&28. + 2B
** (!' BE' 42 ' 42JB2
' 'QJ D4+*5&/0 8' ' 82 9 3B 28* + '2+

42532 0 4:53 82 82BB253 +28 8.9+<329B8 25 ; BGB2
583B9 ; 253 4 <:3 2B ?9 +9 82B3 4 .=2E2B +28
< 2.28 ; :9+228
3 'QJB *4 *54/0 W : B E ++2B+2 ; BK
GB2 E2. + JB 4 52
+ Q0QJB *49* * *34/0 B .3GB2
42 ?9 283 JB 492+ ! :3 :5 <:9B ?9& + 8: + 23 G+
952 JB 49 + 34 4 58 +28 2+2.3 :58 9A :5.3 :58 <9*
G+ ?9280 * , 4 9 1
$- ? 2 ,
'QJB *49* *329B/0 ; 2552 42
<=R8 ?92 >.24283 542 4 B2 E2B 2B & 53258 32 49
.:9B 53 4 2.3B ?92 4 58 +28 << B2 +8 4& 549.3 :5
'QJB B49* *8 :5P 25 E2B80 42 . 5?
8R++ G28/0 8 LL 2B ; 2 42 <=R8 ?92 <2B 3 :5
< B + ?92++2 :5 4232B ; 52 +28 42JB48 42 &4.=2#2 42
?92+?928 583B9 ; 2538 42 <B2. 8 :50 . : ; ; 2 +28 G B:*
; N3B280 +28 3=?B ; : ; 23B280 +28 <RB: ; 23B280 +28 B4:*
; 3B280 +28 =RJBJ ; 23B280 23. LL 0 2B ; 2 42.= ; 2
:5.253B 3 :5 <B:JB288 E2 42 .2B3 58 + ?9 4280 <:9B
B23 B2B +28 'G83 5.28 8 + 528 ?9& +8 B25 2B ; 253 &283
58 ?9&:5 JB 492 +28 2 9A 42 + ; 2B <:9B :G325 B
+2 82+ ; B 5 L 2B ; 2 42 8 + 528 43 ; 2538 42 JB K
49 3 :50 :50 8 ; <+2 ; 2530 JB 49 3 :50 :9 .= ; GB2
JB 49'20 .:583B9.3 :58 < B3 .9+ 2B28 4 58 +28?92++28
:5 .:5.253B2 +28 2 9A 8 +428
M ? 2 , 4'*."/2 , "(407/
, 3 + ,
c0 'QJB *49*40 5 6 LL W 2B ; 2 42
<=R8 ?92 +28 4 E 8 :58 8253 ; B?9428 5 3=2B*
; : ; 43B2 JB 494 LL 2B ; 2 42 J4: ; 43B 2 2B.+2 JB *
4920 .2B.+2 4 E 84 25 3B: 8 .253 8: A 532 42JB220
25 ?9 3B2 .2538 JB 428 LL 2B ; 2 42 J4:JB <= 2
B328 JB 492280 . B328 :9 +28 42J 48 42 +:5J 3942
23 42 + 3 3942 8:53 ; B?948 LL 2B ; 2 42 .=+ ; 2
29 JB 4940 29 4:554 < B 42JB48 LL = ; GB2 JB *
49420 E:R 7 # 9 + JB 49 3 :5 283
; 45 J42 :9B8 42 3=4 ; 28 JB 4948 :93 283 4:52
JB 494 :9 59 5.414 58 + 5 39B20 ,
E50 L"6 $9 :G3259 95 JB 42 4 58 952
=.9+34 42 3=4:+:J 20 42 4B: 30 42 ; 442. 920 42
8. 25.28 :9 42 +233B28 93B2 : 8 +28 5:G+28 43 253
JB 4948 < B <B E +4J2 <B48 3B: 8 58 4&4394280 ?9: *
?92 +2 32B ; 2 43 <+98 +:5J <:9B +28 93B28 LL 9G*
83 53 E2 ; 25 &283 95 J '94 &:G+ J 3 :5 := 283
+2 @9J2 42 <B254B2 429 JB 4948 4 58 +28 . 8 ?9
<29E253 ; 4B 32B952 <2 52 + .3 E20 < 8<
AME9 0 6 = ?92 JB 4940 42<9 8 +2 8:98*4 .B2
@ 8?9& 9 8 9E2B 5 <:53 20 2A2B. 3 952 <23 32 R9*
B 4 .3 :50 6 45 20 3E0 E 0 3:
3 0 'QJB *49*4+0 ! &/0 4I LL 0 $9
E < B 42JB4 9J ; 253 3 :5 JB 492++2 28 <B:JB28
H42 :9E: 8I 9B253 JB 492+80 ; 8 B < 4280 59.3:80
+34<52 = , B$3 >, / 0 < 3220 4 58
:9 8 2B ; 2 42 @9B 8<B9425.2 9G83 393 :5
JB 492++2 LL 8 9 ; 28 JB 492+80 .2B3 58 <8 9 ; 28
?92 +28 #4GB29A .= 53 25389B +28 42JB48 49 32 ; <+2*
$ 4'*."/, "% "(407/ , B
, #! &0% 7'0#!" #"7'#
'QJB *49*4+/0 8 ; # D 2B8238 ?9 82
4 8253 = + ; 2882 253B2 &4< 3B2 23 &4E 5J +2 23 ?9 82
2G 53 253 93B2 : 8 9 @ 4n40 . : ; ; 2 .2+ 82 <B 3 ?92
25.:B2 4 58 ?92+?928 4J+ 828 = 532B +2 JB 492+
6 EB2 ?9 .:53 253 3:93 .2 ?9 82 .= 532 9
+93B 5 <254 53 + ; 2882 .=232B 95 JB 492+
' # S 6 8 2A 32+I 52 823 ; 2 25.:B2 G0
$ & E: B +& BJ253@ 2B 25.:B2 GG2P E: B 3 G 25
32+ <B2E:83 B20 3* 32+ <B :B 5?: 8 B2 B2 3
8:5 JB + H<:3I ?92 8:5 JB 2+0 @ !("
3* 2B ; $0 4 58 LL @3 E6 8 >20 8 B2 42
+ 5E+++2 RJ ; 2823 283: +428 +28 4 328 . <2++28
4&95 ; 2882+ 23 4&95 G32E B2 <:33B .G 8.952 . *
<2++20 23 4&95 JB 2+ <:9B +28 429A . <2++280 59 # 0
/# " (- 7
- # $ H# "7 %0 58 4 3 428 <8 9 ; 28 JB *
492+8 428 #4GB29A
S ! D7'0#!@#@&"@+0/E "5 0"
#"7'#(#1!/" $0,*/ 7'0#!"&&"
B # $ 2 , "% &" (!$$&:"
'QJB *49*4/0 / LL ! B?92B 428 42K
JB48 42 4 E 8 :5 492B 95 3G2B ; : ; 23B2 LL 6 9J*
; 2532B < B 42JB48 B 492B +28 4 .9+328 89 E 53
&" <B:JB48 428 4+2E28 2 <4B2 2 ; : 520 4 5? 8:5
<:4 ; 2 42 8 53 :9 80 52 8 +3 5 :54B2 5 JB 492B
534B43 428 4E452 ; 2538 "% 428 8 39 3 :580
, 6< B3 + E * L :5 4B2B 428 42JB48 4 58
?92+?9&:52 428 .9+348 42 3=4:+:J 20 42 4B: 38 42
; 442. 520 42 8. 25.28 :9 42 +233B28 .9+34
JB 492 2 :G2 JB 492B 25 3=4:+:J 2
$ #'-.##! &0% , #"7'#
3 ! ! QJB *498& 4 < B*
: 688: ; &/ :90 8 ; <+2 ; 2530 'QJB *498&/0 8 ;
3B24&95 4 .3 :55 B2 + 3 5 ?9 0 54 ?9 53 + ?9 5*

3 34 42 .= ?92 ; :30 +28 8R5:5R ; 280 +28 2< 3=43280 23.
82B3 B2 428 E2B8 + 3 58 LI B 2A3258 :50 4 .3 :5K
5 B2 :4 +28 ; :38 8:53 B 5J48 23 2A< ?948 42 ; *
5 4B2 E:B 82B &2A2B. .2 42 + E2B8 . 3 :5 5
JB 498 B 5. 8
- # $ 2 , 42JB40 E2B80 0
+2 ; 882
'QJB * *33:@0 ! :3 3 + 25 2 ; K
<+:R2 <:9B0 428 J52B .2 ?9&:5 3B:9E2 4&4.B 3 89B +28
; 9B ++28 4 58 +28 E ++28 2+ +28 ; :59 ; 2538 42 & 5*
3 ?9 32 Lb &, " , 28 JB 33 0 D82+:5 &98 J2 3 K
+ 25 28 JB 33 42 : ; <2
:R 7 6 ?9 283 +2 ; 4 ; 2
3 'QJB *@&/0 <2 4:53 :5 N 82B3 4 58
+28 + 28 <:9B ; 233B2 +2 ; 5 :. 25 B 52
3 'QJB *@4 2 <B254 95 42E 53 3 23 :/0
W <2B E2. + JB J2 B J2B 49 ; 5 :.
'QJB *J=&/0 :B32 42 +23 9?92+
3 253 952 B .+: B2 25 2B
- # $ *''!4%-*/ #! +*% ,
3 'QJB * &0 ; :9 ++428/0 : ; E9+*
J B2 42 + .:BG 520 4 32 988 JB ++ 53 23 JB ++:3
8* 3 *, 4 ; 5 5 49 + 3
*, , J2 P <B:E25. . 3 +
28< J5 6 <:B 5J0 3 ** 2
.9 98 283 95 4 ; 593 42<B .980 9?92+ :5 .: ; < *
B2B & ++2 ; 54 T :B52 ++2
! 'QJB *++2* ; 50 ; :9 ++4280 23
5:5 JB *R2* ; 5/0 : A 8:9B42 :9 25B:942
& 5. E2BG2 ?9 8 J5 3 .B 2B
+ ; 5 4B2 42 + QE:R :2 ; :3/ A E6 8
B ++2B + ; 5 2B2 42 + .: ; 2 ++20 :5 7
* *
'QJB *++2P ; :9 ++4280 235:5 JB *R2/0
3 5 2B ; 2 42 .+ 882 :552B 49 .:B 89B 95 3:5
?9 82B3 B <<2+2B +28 .= 23 8
,- (! 5. B 5.0 :9 8:B+2 42
3B: ; <23320 58 4 32 < .2 ?9&2++2 43 3 ++:5J420
) QE:R 7 4 @ / A 96 8 28 =2G2BJ28 88 *
B2530 82BB4 8:G3 23 ; J 2MP +98 42 ?9 3B2 258
.:B8 :+88 48 JB 8+: 2B0 & / "N
'QJB * :50 ; :9 ++4280 23 5:5
JB *R:5/0 LL :930 :429B 42 JB 882 :9 42
E G42 GB +22 ++2 2 3 424 J52 42 3:92G2B 9A
82BE 233288 +28 29 4 8 3 ? &2++28 825 253 +2 JB G*'
:50 > > ::88 ' ; E @@ :<9+ B2 ; 2530 952 ! B 2
JB ++:50 952 2 ; ; 2 8 +2 23 3:932 3 .=42 42 JB ' 2
28328 B ; 8828 4&95 B2< 8 ! B.= 542 42
JB ++:58 ; 5J2 3 4 58 95 82 + B2< 8 429A B2 '
89B28 293 2B28 42 ; :93:5 E2. +28 <38 80 952 343 52
42 E .=2 23 4 A + EB28 42 < 50 8 58 < B+2B 428 JB +*
:58 4:53 + 43 3 B B2 ; 253 44<:9 B90 7
2 , 6 %& 0 LL 6 B 88 ; + 3 :5 428
B28+28 42 R 5420 B28328:9 B:J59B28 428 ; BG3F 0 28
JB ++:58 52 E254253 < 8 9 < 240 ; 8 25 G+:.
- (! B:G G+2 ; 253 & 5. B 5?
JB ++20 JB +0 E:R .28 ; :38 .&283 &:429B 42 .2 ?9
GB 3+2 89B + .=2+2B 283 <:B34 R E: B 952
.:53B .3 :5 42 .2 ?92 :5 JB 332 9 ; 4
42 + ; B ; 32
3 QJB *++:50 ; :9 ++428/0
A.B23 :5 4< 882 42 + <: 3B 52 4:53 :5 82 42G B*
B 882 < B + 3:9A
- # $ B +3 95 ; :3 :B ; 4 42 5. 25 E2BG2
.B 2B .: ; ; 2 + .:B52 ++2 QE:R 7 :
GN +2 8:5 25B:94 ?9&:5 <B:49 3 25 ; 25 53
.2332 2A2B43 :50 R 53 4232B ; 52 B 88 ; + 3 :5
2 283 25 2 23 33G 4 ; 593 42
QE:R +2 89 E 53/0
3 0 QJB *++:50 ; :9 ++428/0
5 428 5: ; 8 E9+J B28 42 + <23 32 .=2E42=2
QJ. *++:*540 ; :9 ++428/0
3 W B254B2 95 J:930 954 :429B 42 ' ++: 5 :98
B2M + 884 JB ++:552B .2 <+ 3
- (! 2
3 QJB *++:*540 ; :9 ++428/0
:9882B 4& 92 ; 5 4B2 . 8842 <:9B 2A<9+82B
+ < 39 32 =:B8 42 + J:BJ2
- # $ 2
3 0 QJB ++:*529B0 529*M60
; :9 ++428/0 23 2+9 0 .2++2 ?9 JB ++:552
8:9E253
3 QJ3 *++:*5233*M&0 ; :9 ++428/0
2 ; ; 2 ?9 E254 428 B28328 42 ' +2 LL J
! 9 82 .9 8 5 4B2
$ 2
7 QJB 5P &5 52 82 + 2 < 8 49 JB 5 2 I .2+*
+253P 9 <+9B 2+0 &8 82 + 2 428 JB 5*M 2A.2++2538/0 8
6 2 B9 3 23 + 82 ; 25.2 428 .4B4 +28 2 JB 5
42 .28 : ; 2538 283 :B3 JB:8 5 G: ; ; 28 <+98
?9&25 JB 58 + . ; < J52 283 2B +20
0 >2 + .B: 8 52 H952 <2B+2I0 4 3* +0 ! 8 +2
; : 54B2 JB 5 42 ; + 2B 3 G 25 ; 29A ; :5 _ B20

> 1 *++" -& (" %'*!." ,/"&,!"@
$*-(!/ 7'0-/ #" $'*+"/% 40'+- 1-.'0-" & ?
4 @-(1!/ ("!& 7'0-/ ."/0-"/% ,!"&@
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#'*/ 40" 2"!: ,!- 7*!."'/0-"/% 91 $'-,!" "/ &"!"
/*+ + * % 7 4 Y #0/(
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4 " %0/% #" 7'0/#(7#/-"(,!1$& —18 0 4&!(#"
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! " %(%*/ NN &E *&!+"/% = 7'0-/(<#@
2*&%#(1-+4*'%0%-*/ 1":H'%0%-*01 #"(7'0-/(
0/(!/ %0% *# &" +N/-(%#'" 2*+4'"/#'0
40(,!" &0 +"-&&"!'" "% &0H("!&" 0#+-/-(%'0%-*/ #!
2*++"'2" #"(7'0-/("(% #" /" (1#/ 4*-/% +"&"'
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& 0 *(# 4&0-#2 &0 20!(" #" &0 %-;"'%# @#!
2*++"'2" @#"(7'0-/(40'2" ,!1-E &0 2'*80-% &-#"
&0 ($-'"%# #"((!;(-(%0/2"(0 &0 4'*(4#'-%# #" 107'-@
2!&%!'" !, /"$0+-/" (10// /@
,0-% "/ '0/2" U"/ B J5 ;-"/%#% &0 2'0-/%" !6-."'@
("&&" 022'!% &" +0& 40" &"(4'#20!%-*/(,!1"&&" (!7@
7"'05 10.0'-2" %*!9*!'(4'#%" (0-(-" %*!%"(&"(
.*-"(#" &0 $*'%!/" (1"+40'0 #"(7'0-/("/2*'"
.-& 4'-: "%0%%"/#-%,!" &0$0+-/"-"(&!- '"#"+0/# %
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<-2['"/$"'+0-% %0!% #" 7'0-/(,!1"&&" ("!&" "#% 4!
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+"/% &" +#%"-& "% &" ("-7&" NN ?"/!(7'0-/(2"!:
,!- ("'."/% &0 /*!''-%!'" #"(0/-+0!: %"&(,!" b
1*'7" 10.*-/" &"(."(2"("% &"(4*%(,!- Z
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(#+"/% "/ 0!%*+/" N '0-/('*/#(&"(4*-(#"
;'";-(&"(."(2"("% 0!%'"(("+"/2"($*!''07#'"(
'0-/ (!" ;*&# +0/-#'" #"+"(!?" &"(7'0-/(
0 +"(!-" #" &0# " ;0&&" "(% 7'0-/ (%-" ;*'# &
, # -2 0.'-& ABY NN *!&"%(#"
7'0-/ 4*!&"%(,!1*/ #&#." 0! 4'-/%"+4("% ,!1*/
/*!''-% #" 7'0-/ NN -7 "(% #0/(&" 7'0-/ -& "(%
"/9-0(("#" $0-'" $-.%!/" ZN $-0 !/0- %%(("/(#%'"
#-+(&" 7'0-/ #%'" 2*++*##+"/% (/0-(" ?0%(
4*!"2" ,!1#%0/%& 9" /1#%0-(#0/(&" 7'0-/ # #0
B I 0" ":%"/(-*/ $'!-% 7'"/!*! ("+"/2"
7'"/!" #" 2"'%0-/"(4&0/%"(/7'0-/ #" +*!%0'#"
#" 7"/-#.'" "%" "(7%0-/(#" '0-(-/ %& YF "%-%
7'0-/ /*+ #*//# 0!:$'!-%(#" 1*'0/H' %*+;#(
0.0/% +0%!'-%# NN "%-% 7'0-/ (" #-% 0!((-#" ;!-&"
'"%-'#" 40" &0 #-(%-&&0%-*/ #" 2"(4"%-%"(*'0/7"(
I "%-%" 40'%-" ,!- "(% 2"+40'#" */7'0-/ #"
2#'#0&"(/ 7'0-/ #" ("& #" 4*!#'" 20/G+
'*+g"&& 0&&0-% '0.07"' %*!%" &0 26'#%-"/%" (0/(
!/ 4"%-% 7'0-/ #"(0;&" ,!- (" +-% #0/((*/ !'"%;'"
'0'% /- A ##-% 9 &8 0.0-% 0!K
%'"$*-(!/ 7'0-/ #"(0;&" ,!- (" &0+%+%0-%-$#%'" %-/
0%*+" -7/*'# #0/(&"(##("'%(5 0! ;*!% #" ,!"&K
,!"(0//#"(-& #".-/% #-0+0/% "% "(% 4'#("/%
&" 4&!(;"& *'/(+"!% #" &0 2*!'*/@/" #! '*- #"(
/#"e U -(ES -7 & /18 0 40(!/ 7'0-/
#" ("& #0/(""% #!.'07" H"(%@ @#-'" ,/ /18 %'@*!."
40(&" +*-/#'" "(4'-% -& "(% -/(-4-#" *!" +*- 9"
.*!(0.*!" ,!" 9" /10- 40(%'*!.# &" +*-/#'" 7'0-/
#" (#- #0/(%*!% 2"&0 (2 (N *4!&0-'#@
+"/% S" %" +0%%7"'0-(0."2 !/ 7'0-/ #" ("& 21"(%@
@#-'"9" (!-(4&!($;'% ,!" %*% 9" %" '*(("'0-(NN /
7'0-/ #1"/2"/(!/" 4"%-%" 4*'%-*/ #1"/2"/(5 $-7 !/
4"! #" &*!0/7" #" $&0%%"'-" Q!1-& "(% #-$$-2-&" ,!1*/
/" 2*/$*/#" &0 ."'%! 0."2 &0 $*'%!/" "% ,!1*/ /"
9"%%" (0/(8 4"/ #' ,!"&,%C 7'0-/ #" 1"/2"*(,!"
1*/ #*-% -"! (!" &" +*/#" ,!- /1"(% ,!1!/"
-#*&"& $-2 A 9 ; -'" "/ 7'0-/ -H2-'" ,!-
$*'2" #1 %'" '"+! " (!" &"(%*-&"((" ' #!-% "/
7'0-/(#" &0 H(("!2 #1!/" ;." + *-*"''"9N "'+"
#" 40%6*&*7-" '0-/(#" %0;02 4"%-%(0-2!&(,!1 Q
%'*!." #0/(&0 4'*(%0%" NNMI / (" #-% #" 2"'%0-/"(
26*("($0-%"("/ $*'+" #" 7'0-/ "(7'0-/(#1!/
2*&&-"" #10+ ;'" '0-/(#" 2604"&"% 0-% #! /*+
#" S (!(%*!%"(&"(-/#!&7"/2"(Q!" .0&"/% 2604"@
&"%(7'0-/(; /-%("/$-& (# # :!- "(
60;-%0/%(U&"((407/*&(J +0'260-"/% 7'0."+"/%
0."2 #"(7'0-/("/$-& ("% !/ 4*-7/0'# &"!" 2"-/@
%!'" 'XXX2 #" ' 1 -- NN 0%6*&-,!" 7'*(
7'0&H 0%6*&-,!" ,!- (" 4"'+"% ;"0!2*!4#" ";*("(
#"$"/#!"(40" &0 '"&-7-*/5 &*2!%-*/ ,!- ."/& 4'*;0K
;&"+"/% #" 2"&!- ,!- ":4 #-0/% (*/ 2604"&"% /1"/
#-% ,!" &"(7'*(7'0-/(NN 0" ":%"/(-*/ S1"/'07"'0-
#" .*-'0.0/% , "#" +*!'-% Q!1!/" 4'!#" 7'*(
7'0-/ !/" $0!(("-/6!+0-/" *!%'"
. NNMI '0-/(#1*' +*'2"0!: #1*" %' (@4!'(
,!1*/ %'*!." #0/(&"('-.& '"(*!(&0 (!'$02" #" &0
%"''" "% ,!1*/ / ++" 0-/'- ;"& ,!1"/ (*-% &" .*&!K
+" "&%!U2*++"''"9 ,!" -C 4-'" U#" %-/"J0 *%%@
."'% 0."2 &"(60;-%0/%(#" &0 4"%-%" !";0'-" ("'@
#!-% &"!" #*--/"" #!%6 #!%0;02 #"(#'0/(!@

40-&&" ' F *&&"2%-*/' #" 7'(#/"(#%-, !"%H"(*!' '0/@
7M"(+#%6*#-, !"+"/%
? -"/' , !" 7'"/"%-"" (*-& 4&!(!(-%# , !*'
7'0-/-"' 2"&!-@2- "(% 2"4"/#0/% +"-&&"! '5 &"(0/@
2-"//"(*'#*/ /0/2"("% (%O%!%(2*/2"+0/% 2"% M%O%
/*' 4*'%"/% , !" &" /*+'#" 7'0-/-"' "(% #!0-&&"!'(
##'-.# ":02%"+" ^'#" '*!' %0/#-(, !"
.-"/%#"
'# $ '2
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&& & D7'$"@-"E' (' *8
D7'H(0@1E' 2%-*/'#" 7'0-(("
N ", !-' ("'%# 7'0-(("' /' ;*/' 7'0-((07"N '0-(@
(07"# !' (!2'"' #%O% #!' (%'*4' , !-' '"$'*-#-'%'*4' .-%'
#*//"#" +"/ !('2'-(%0!':#!!/'((!; (%0/2" ; !%8"'!("
'# 9 '2
$' D7'"@(0@/1E' (' 0'-#%# #" $-7!"
D7'#@(1E' ' N F !; (%0/2" */2%!"!("
#" 4"!' #" %H/(-(%0/2" '$*/#0/% $02-&"+"/%' #-%"'"/'
26-+-" 2*'4(' 7'0(D.*8' @ ' "%'"40/#!" "/' #-@
."'("(40'%-"(#!' 2*'4(' -%"(0!:' "/-0/%(#1 ('0"&5
!(0"' +0/7"'"< 4-/% &0 7'0-((" #" &0 ;"' ;-('#!'
;*" !$/-'#" &0 2; ; .'" ' 1 ' = / ' .--' Y' "(
4-#%' ($!'"/% *22!4#(9!(, !1# &0 / !-% 0 *-$'-"&"(
6*&*20!(%"("% &"3'7'0-(("('4 ' 1 '0 " : : : .
"%%" +0%-"'" "(% &0 7'0-((" , !-' (!'-"/% '*#-@
/0-'"+"/% # %'"/%"@2-/,'*!' , !0'0/%" 0/(5 "%' # +"@
(!'" , !1"&&" 0!7+"/%(' &" 2*'4(0 +*-/(#" ?7#@
'"%# "% #" &-;"'%# #0/(("(+*!."+"/%(
2>,/' %' -.' 4' BYA' N$-%*-&" #"
7'0-(("' .*8' # '/F 'B'N '"/#'" #" &0 7'0-(("
#"."/-"7'0(' !" &0 $-/'#" 1#%"' 2"% *-("0!' U&" %*'2*&J
4'"/# ;"0!2*!4 #" 7'0-(("' "% -& "(% 0&*'(":2"&&"/%
0 +0/7"'' C '%': + '4' YM N 1"(%!/'4"@
&*%*/' #" 7'0-((' ("#-% #!!/'%'; (@4"%-% -'0!'%"#(@
7'0('%"& , !" 1*'%*&0/'&"; '"2$-7!"' "% 0!((& #!!/'
4"%-%"/$0/% ;-"/'"/'260-'N -.'" #" (0 7'0-(("(!'
Y 7'0-((" ("#-% #" *!'(#" &0 +0'+*%%"' #!'
&*-'' "%2' , !-' .-."/% #" &" !" 4'*4'" 2*'4(#!'0/%
&"!" (*++"-& #16-."" "% , !-' ("'"."-&&" %'#(@+0-@
7'"(5 "% $-7' .-.'" (!"(*/' ;-"/' N -7' ("4&0-/%
#" %'*4' #" 7'0-(("' ("#-%#!!/'6*++", !-' ("4&0-/%
, !"&, !" 26*(" , !-' &!' "(% 0.0/%07"!: ' N -7'
0 7'0-((" #0'7"/%' 21"(%@0@#-'" -' $*'2" #0'7"/%'
'"+"#" +0'-/"' '0-(("#" 2*, ' /*+', !"&"(+0@
%"&"%(#*//"/% 0-0]'0-((" , !" &" *, '*!'2!-(&/-"
'"%-'" #"(-0/#"((H "(2!-%"(#0/((0 260!#-6'"
'0-(("#" 4"/#!' 7'0-((" 4'-(" 0!' *'4(# !/'
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#" +"'."-&&"!("(."'%!' 2!'0%-."(' '*;0;&" "/%
, !"&, !" ;*!'"0!' 0!((9 260'&0%O/' , !" 2'!"(0!'0
$0-% 022'*-'" 0!:' -+ ;#2-&"(#"(*/' , !0'%-" , !"&0
7'0-((" #"'4"/#!' 7!#'-((0-% #" #4-&"4(-" 9
' # ," " ' N d f/' %"'+"(#" 2!-(-/"
7'0-(("(("#-% #" &0 7'#((("$*/#!'" "%#" &0 $'-%!''
0-'" 2!-'" #"(4*++"(#"%"'" #0/(&0 7'0-((" 0
&0 7'0-((" #1*-"' N Yd 4;*/4*-/%' H' 7'0-((" -(@
2*++*#" ?*/("-7/"!" %*!%/*8# , !1-&$-%#0/(&0
7'0-((" "%#0/(040%6-" 40'!% !/'0!%" 6*++"
#0/("2"(#"!:'2*/("-&(' ! ' B A 'N 0+-&-#"@
+"/%' 0 7'0-((" /" 1#%*!$$" 40(&0 7'0-((" "+@
4#"6" 40("#" 2*!-'-' ("#-%#!!/" 4"%(*//" %'#(@+0-@
7"' ' 0-'" #" &0 7'0-((" (!"/7'0-((" #0/(&"
(*++"-&' #0/(-/#*'/2" N N -7' 0 7'0-((" #"&0
%"'"'&0 (!;(%0/2", !-2*/%'-; !" 4&!(6&0 $"%-&-%#'
"(HH!"('0.-"/"(" +4*'%"/%&0 7-H((" #" &0%"'"'"'
-7' "+" ;-;&-,!" 0 7'0-(("#" &0 %"'"&"(
;-"/(, !"&0%"'"4*#!-%'Q!" -"!'(#*//" !'(
0; */#0/2"#" ;-# "%#" .-/'#"&0 *(""#"!2-"&'"%#"
&0 7'0-(("#" &0 %"' ' 1 ' 2 ' : : . / ' B
0/#-(, !-& '#40/#0-% ['4&"-/"(+0-/((! ! / ' 4"%-%
/*+; '##16H!-"!: '&0 %*(#" #" 2-"&'&0 7'0-((" #" &0
&0 %"'" ' &, 8 ' MF *'%" #10&@
%"'0%-*/'#!'.-/'#0/(&0, !"&&"-& 4'"/# !/"0440'"/2"
6!-&"!(" ' .-/'%*!'/"' ['&0 7'%!(("' ' MF "'+"
#1":4&*-%0%-*/' -%!+" 4!'-$-#
' / ' : -' (' (0%"'(!" 0!%"& /1"(40/#-'"/%
/"&07'0-((" 0 "!"$$'-"/%'< '4' X' 0-+'"%
2'0-((" 1 '" '4' B ' -'2!"/(!-&&0!+"('"@
4"'*-% #" ;"'("" U%-'"#" 10'2J 1! /"$*'"(% *6' "%
7'0/%4-"2" "(%#5 '-("% #"!("2"'(#" 4'-+" 7'"(("
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&*-"/%0'#"'" U; '$-&"'J "/' &0 ."'< &*-' &"(2'"'("(
;"(%"("/' &"!' #1"/2"/(' 0 , ' AM' 0" ;-"/
(0";#(, !1 +*'(/"' &"(("' *'$-/(0+0/("2*&*" /"
7'"(("' &0 *("' YRM N:-.I (' ".-/'70'-'0#" &0
7'"((" ' / ' (' ;044*/(#" 60!&%" 7'"(("
1' / ' R' O I (' % (026"<' (-' -&("!(("/% $0-% 2"
.*807"' -&("!(("/% 4*'%#' #*+ +07" #!'408("#"2"/%
+-/"'$'0/2(5' 20" , /"&0 +0'26" , !"9" .*!(#-(7-(%
%*!%"&0 7'0-((" #1 ! ."-7/"' *-(('+ I'9 ' '$-0@
2*'" .0!% -& +-"!:', !" -&("/' .-."/% "% , !"-&("/'
0-"/% &0 7'0-((" "%&" 4'*$-% , !" .*("//"+-(' -^' /
D

&& ' Y ' Q!0/%0 +*-' 40" (0-/%" ?0'-"'S" /18 "/%"/(&*7-2' *+' #!!/' 7"/'" #1*-("0!:' -/("2--.*'"(#*/%
/-' 7'0(/-' 7'"(("' 0 '%N:.-I' (' *!(2*/.-"/% &" %84" "(%&0 7'0&&0'-" ; '!/" 044"&" 40" !$$*/' &"
"(%'" (0-7"(' 4*!" $&"!'"' ("/%-" "% "(%-+"" 2"('*-' #" ($*!' +-&-"'(' "% 40' #10!%'"(0!%"!' (&*' $*!'@
";0!&:'&-.'"("#" 60!&%"7'"(("' &"7-"'(0!'4'*260("% +-&-" 7'0&&0'-"'
60'#-(&0 '"/2*/%"' 2 4'0 1 (%'0/20'#('H%' D7-0@ E' (' +' "'+" #" <**&*7-"'
$0-(*-% ("(0$$0-'"(['7'0-(("#10'7"/%' 0!%'" 707/*-% 260((-"' *-("0!' N # ' ' "' *+' +*#"'/" #"
&"22"!" #" ("(9!7"(40" 4&!(-"!'(7"/%-&&"(("(*'#"" , !1*/' 0 044" 0 0!((-&"(0260((-"'(
- ' -.' M' 0/(&"(, !"&&"(%"'"(("'0 9"%%"" # ' # $ ' 0%' 0";0(("
7'0-(("U"/7'0-(J , !1*/ 4'"/#'0 0! $*/#(#"($*((#(? ' D7'0@+"/1E' &0/%" , !-' 2*/(%-%!"
4*!' (".-"#10!%0/% #10+"/#"+"/%' *' 4'-/2-40&"+"/%&" 70<*/' & 8 0 4&!(#" '"/*/2!&"(
MA' "(%"'"'"("/'#".-/"/%(-' 7'0(("("% "/'4"/'%"0 , !" '*-("'(4&!(#" 7'0+"/(, "#" 260/"(5
&0 7'""(("((-' 4'*$*/#+"/% 0!'#"#0/(' , !" -& 8 0 4&!(#" 404-&&*/(, !" #" 4*!&" (4&!(#"
A , ' YA' ' "/2*!'!% #1*-(-."%"' #" 7'0-((" "% 2"'*/(, !" #"2;-"/(' Q; 0@
#18.'*/7/"'-"'-+" +0&0#-"#" #*/%-& +*!!'%' -' !' / ' %' ' YB ' 0 '@
' A ' /'4"!' #".0/%&0 $-/'#" 9!-&&"%" &"("2"'$(' O I (' /"(2*&-""0.0-&(!/' "(48 #16"' ;0
(*/%#!X%*!% $'08"< "% ; !/-< "% "/'&"!' 4&0-/" ."@ /*++0" 7'0+"/' #' 1 1' ;Q
/0-(*/5 -&(#"+"/'"/%"/' !/"'60!&%" 7'0-(("' "% # $ ' 0%' '70<*+'
&"!" #*//"'"#!' ;*/'%"+4(' "#"0/(&0 ;!-((*/(, !1-&($' ? 'D7'0@+-OE' + (4[2"#""0-(-/'#!'? -#-
/%26-(-(4*!"$0-'"&"!'($"(%"(' 7 -:' ! ' ? 'D7'0@+-@/O"E'N F & 6' ' Q!-' "(%#"
* ' 4' ' ' #0/(0!' +*% + '5 39B2 #!' J M:5' 28 <+ 5328 JB ; 5S28 :53 25
X' # $ ' 2 '4-20'#' * ' gO&&*/' ' /0@ JS5SB ' +28 29 +28 +: 5J9281 L3B: 328 23 <? 53928
+!'*-('* ,* '4'*."/3' ' ('+' '('$5 ' *!'*//" 7'0+-/O"' 2*!'*//" #*//O" ;6"< &"(
20%O&' 7' (' + 5 "(407/' "+0-/('40" #"(0((-O7O(' 0! 7O/O'0& , !-'&"(#O@
'$- ' D7' ;@("' (O"E' " ' '#" 7'0-(K &-.'0-%5'"&&" O%O-% $0-%" #" 70<*/'4'-(#0/(&" &-"!
("' "('*!"(;-"/'7'0-(("(' *%'" 260'"%%" +0& #!' (-"7"' ' #-% 4&!%$-% 2*!'*//" #" 70<*+' N d #'
7'0-((#" '"3*-% "% $0-% #"(.-(-%"(5 /*!(0&-"/("40" ' " ' "'+" #" ;*%0/-, !"' 0+-&&" #0 4&0/%"(
&"(' '!"((.' A'("4%' MBA +*/*2*%8&O#*/"(0 0%0+-/"(684*78/"(' " ;&O ' '
' D7'[@("E' P' 'NNF '*%%"' ' *-/#'"#"#" &" -<' &" '*("0!' "%&"
7'0-((" *!' #!/' 2*'4(7'0(' '0-((" !/' "((-"!' ;0+;*!' (*/% #"(7'0+-/""(' " '*"6"" "/' '!-/"
'0-(("' ("((*!&-"'(' /' &-+-"" ;*-%"!: ' Q!!*/' /1"(%4&!(4"/#!' (!" 0?+"0."2 ("(&*/7!"(7'0K
0.0-% #16!-&" 260!#" "% #" (*!$'" 7'0-((#' # ' +-/"'(' 6 ' 2 ' -'-. ' ' 0/(&"(408('
'O' ' 0+-&-['"+"/%' '0-(("' ("(;*%%"($0-" 260!#(' (' ' 2" ("(4'-. ""(&*'/'2 7'0+-/""(
("(4'"40'0%-$(#" #"40'%5 "% $-7' (" 4'"40'"" [' &0 , !-' #"2*'"/% 26' 26 [%"0!:' 7*%6-, !"(' " ' 1' &
+*'%' ' -7' %*' 4*4!&0-'"+"/%' '0-(("&"(;*%%"(0 ' ' ' /' 0 #-% 7'0+-/20"(2" !#(#" 4&0/%"
, !"&, !! / ' &!-#*//"/%"" "/:%"'"+"@*/2%-*/' ' .-20-'"' ' 7'0+-/20"(' ' ' ' ' %0
#!' "+4&"'"% 0%0-% ."/!' &" 0#+-/(-0/'0&0#" ' ' # $ ' 0%' 70<*/' 0$-/0-"
68#'*4-, !"J "/:%"'"+"@*/2%-*/% 06' +*/(-"!" 0;;" ' -/#-, !"' 2*++"'/' (0-%"!'/40'%-"4" 40((-$5
&!-#"%0-&' .*!("/"< +(7'0-((""&"(;*%%" (5 2"&0 "(% , !0/% 0 ' 0((+0//' #0/(&" 0"9*!'/0& #"'" = !6/'
-/!%-&"' 20'"9"' +!"/' .0-(40" "0!' ' 1 ' ;'-&&"'' O%"
b ' 7' ' "% 4*4!&0-'"+"/%' '0-(("' &" 2*!%"0!' */2%!"!' &!:'"#!' '0#-20& 0/(2"' ' / 5' "%
+0/7"'"#" &0 .-0/#" 0 #0 8"!/"" *!' 0 7*#%"' ' N -7' &"%-"!" 2*+40'"0!' 7'"*7) 5 "%0!'7"'+0/' '6"' ;"
707/"'"40" #" 0'7"/%' '0-(("&0 40%%%" , !H, !!!/' &" D7'0@+ '15 #P' %"/, -(' ' ?*&-;'"I'
%"/%"(#" .*((*-/(5 ?0-("".* (&0-(("<40("7'0-((" */'4*'/ /, 0-% 7'0/@'*0-'" 2*++" */' &" ;-&'5 40%
&0 40%%" 0!' +*-/(% ' -&&' M' 10!%0/% 2"(."'! "!&"-'*-'' ' 7'$0$$-@I' '1'
4&!(, !" (*/('(*!."/'-" 2*/%-/!"%"#"(' 0/-7-/&"/ +0-'"3 Q!-' 40'&" #1*%$"/("" 7'0/#1+0'" /-' 7'0/#1@
g !&*/ *'"%#" *+"#1*0 -& +1"2'-%#!' ? %'('"+"/' 4['"3 -' / '--' B' 0/7"0!' , !-' .*!&0-% 4"-/#"
2*"!"2*++" (1-& +" 7'0-((0-% &0 40%%"' ($-.' R) ' & ":02%"*+0 &0 4'*/*/2-0%-*/'0 2'-0%"7'0/+0%%"E'
#-(0-%, !1!/'4&0-#-"!" #*/% 0$-0-+&&0-0 +H' .0-% F 10"% #!":4'-+""("(4"/("(40" &0 40$*&"(*%-
7'0-((0&0 40%%"0 2"40!.-+0&U!/'2*, !-'/0.0-% 40" 02"-%!" #!!/' +0/- 0!:'"+" 2*!' 0!(("7-"
40(260/%"(4*!'" ."&&"'J' 0 '-' 'N -7' 0%0; &"(40" #" ;*/'' 2' #" ;"'*//" ;&" 7'0+ "
'0-((" &" +0'%"0/"' #*/'"#" 0'7"/%0!' 4*-%-"' +0-'' 0.*-'" /"(-7/"'"&0 7'0+-+0-'"@ ' Q!*-
4*!" O%"!% 0#+-((/ /1"/%%%0-/"4*-% 26"<' /*!(' 0 2*%"9"' ' ;'$*e@
7'0-((("' 40"&" +0'%"0/"' 0 -' N -7' ("/%"/' ' 0'"/"(" +*/%0'+0'"+0'+%9"/' (0 7'0++0-"(
&0-'"+" / '0-(("' &" 2*!(" 40!'(, !" #"+" ++ "(0!"(, !-' (("&" !"#-&" 4"% #!'
/"#"(2*!4"' "#"(#0'" .(*"-/'N F 026"' #" 7'0-(("%(7'0++0-"(
-*!40/#*%%0!% ' 26('7/ 0-(*/"/"0/%"/#-
7'0+"((0 #" %%0-' 2*+-40' ' !!-(2"!-!/" +*/("7%(0"+ +"
.*!("/2"/%"%"%"&"(;*%%"(0 2-+-&&' ;0 2'00!/"(4!-%

[illegible]

393B28 .=:828 42 ; c ; 2 J25B2' :B32B 4:' JB 548
B42 9A' .B B2 952 JB 542+233B2' B 542 3 J92'
'82 3 95 JB 54 GB9 3' 5 JB 54 8+25.2 89..'4 ' 3
.28 < B:+28'>& ' 952 JB 542 5:9E2+2 "' ' <<B25
4B2' 5 JB 54 5: ; GB2' E: B 42 JB 548 E .28 5' 5&R
' < 8 *JB 54 ; " .2+ ' >2 8 +8 ?9& 7 H&2 ; < B2 42
< ' 4: 3 8& 2.B: 3B2 23 + ' 328 JB 548 4283 58 2
+2 G:B52B:53 < ' .=2M +28 <2:<+28 + 3 58 ' '
' 3' :98 E2M JB 54 89>234& <<B =2542B<:9B2+2
' * ' /' ' %' 2:095 JB 54 8:9< B 5' . * '
' <BG8 .2 JB 54 2A2 ; <+2 25 E 5' :5' 44+ G2B2
'+G' ' ' 28:53428.:9<8 4&288 ; 8 8' JB 548
?92 <293*"3B2 2 < 3:+f ' 4B: 3 4&25' .B 54B2 95
.:9<42 ; +3B2 "'3G' ; ' ' 2 J529B +2 GB9 3 283
JB 54 23 & 9329B 5.2B3 5 5' C 'E 8' & 5325
4 53 52 < B+2 ?92 4 ' E:3B2 ; J5 .25.2 42 E:3B2
JB 54 B ' 'E:8 JB 54 B2< 8+4 4 ; 2 42 58 25
283 3:932 "3:55"2 8NE " ' 2+<'?9'B J52 4 58+28
. 29A 23 42 ?9' B2+GE283 63:98 +28 2 ; < B28 "' ?9'
829' << B 2 3 + J+: B2 + ' ; 8'2834 23+& 54G<25
4 5.2 283 988'+2 829 ?+ " a2 '+:B 2 42 B2+'
+:' 9A B: 8 23*42+29B 4 : 5 2B J9 54 +9' <+ 3 42
JB 5428 23 42 32BB ! 28 2J:58 ' < ' & '
$9: ?92 <2B8:552 5& J52B2 +28 JB 5428 ?9 +3 8
4&952 B2 52 4 :53+&= 83: B2 'B2 8<+'+:93+&95 E2B8g '
'%; ' 58 '<+98 JB 548 B29B 428 J92BB28 .+E*'
+28 @ E9 8 :5 5& '4:934 42 8' < B:+2 5' 44828<4B4
42 8 ' .+2 ; 25.2 " 1' '2+2 293 42 + '@: 2 42 BG
J52B 89B 952 JB 542 5 3 :5 .&283 < B.2 ?9&2+2 <:9
E 3 .:532532B +2 448 B ; ; 2582 ?9' 8 58 .2882 +'
8:++ . 3 3' B2 49G 25 ; ' 1&'>2 52 <9 8 8:9325 B
.28 JB 5428 < B:+28 < B +28?92+28 & BB:J 5.2 =9
; 523 .=2 42 8&G3:9B4 B ",* 'VC ' &283 952
JB 542 < B:+2 .=B43 25 '23 ?9' ; 4B 32 4& 33B2 G.:9
342 E2.'3:98 +28 8253 ; 2538 42 B28<2.3 ?92+' B2+K
J :5 283 . < G+2 42 5:98 58< B2B " " ' A4 '
< , ' ' ' < ' 32' :+" +28 <+98 JB 548
.:9<8 2 J529B .:53 5928 + ' E .3: B2 283 "' E:98
' ' 'E 2' &253B2<B 82 8 58 4:932 283 JB 542
23 <GB +2982 " = +'E ' >&:85 ' 42E 53 +9
B: ; <B2 .2 ' 54' 8+25.2 5' # ' 'C ' 82 ; G+2
?92 +2 3B:< JB 54 2 ; <B2882 ; 253 283 952 B2.=2BK
.=2 ; <:B3952 :9 952 E 52 2.3 3 :5 42 ; B
?923 9+3 93B28 42 + ' G 25 2 ++ 5.2 < B 828 < K
B:+28 23 < B 3:9328 ' .:549 32 X ' '9 "
A5 3 2&283 49 82 5 428 JB 5 " :G83 .+28 92 5 8"
8253 +28 JB 5428 G2 93+8 3 ! :BB8 C ' B'
< ' 4 4 58 ' ! 8 8 3 3 ?92 2 42 9B'
'B'J' 82' ; 58 42 .2 JB 54 =: ; . 42 $ ' - '
83E ' 5W306E: ' 42 52 ; \ ?9&:5 ' 5: ; 4 +2
B 54 23 X '5& ' 3 ?92 42 JB 5428 .B9 9348 B495 3
' 8:98 8 ' 4: ; 5 3 :5 +2 5235 B\' 23 & 5J+232BB2
B ' 7 , ' !28 ; 58 44828<4 428 58 .2
JB 54 G3 ; 4:5 82B:53 <+98 889B428 C ' E
> ; 8 .=2' :9 B:3 <:53 2 :9 . 3:R25 !2
.:5J93 ; <B:@23 988' J5 ; 4 ?92 +2 ; 25 5'
- ' 8' >2 98 :G+ J4 42 :B3 B 49 .= 32 9
?92+?92 32 ; <8 <B=8 ?92 ! ' +2 G B: 'E:98 293B2<
E:RN \' JB 548 .:9<8 42 < 24 4 58 +2 42BB GB2 <'
' "' 28 JB 548 <GB +8 +28 JB 548 2 :B38
8:53 548 '#" ' E ' :98 < B+2M 49 B28K
<2.3 42 + ' <B:<B 234 ' 283 428 4B: 38 <+98 JB 548
.29A 42 &=9 ; 5 32 ' ' 2 *+, ' 5 8' '
4 3 + ' 42 "'3:B3 39 3&25 + B ; 28 2 JB 548 3 +2538
:53 42 ; : 58 G2 9A 89..28* 28 6= 38 4J2B8 82K
B:53 .=232 9A B 5J 8 3 49 <B:8.B 3 4:92 B:53
+28 + B ; 28 % 7 ' 9 , ' ' - ' S .2332
E923428 + ; ; 28 82 4 B3J2 53 89B +2 B2 ; + 5I 95
JB 54 $ <J:= 8& ; 5< B2 42 ; ;' 28<B 3 +28 ! :8.<
E 328 2455 88 53 5:3B2 34 ; 4 X*23 52J+ J2532 56
8:9. 5.2 9B 253* 8: :5J9+&28<: B 42 GB4+2B E2.'
! :8.:9 5:8 8:+4 38 EB2842 E 5 42 3 J92 23 42
8: ; ; 2 +" ' ')' ' . "'E5+ N' 'B:R 932
E + 234 4 <+ .42 < B+'5:G+2882 + B283 3 4:52
952 ; <:8 532 .: +3 :542 3:9328 +28 JB 5428 :BK
39528 23 42 3:98 +28 JB 548 5: ; 8 42 & 5J 232BB2
+ ! ' = ' ' F6 ' 6 < B3' 6 +2J:5'
' ' JB 542 B; 42 82 4 8 3 8:98 +2 <B2 ; 2B 2 ; K
< B2 42 & B ; 22 .: ; ; 5422 < B <:+G:5 +9 * ; G ; 2
23 89B3:93 42 & B ; G2 ?9' 3+' . ; < J52 42 988 '
' 2.2 "'JB 54 8<2.3 .+2 < 2.2 "' 42.:B8 23 "' .= 5
J2 ; 2538 "' E92' J ' JB 548 ; :38 428 ; :38
2 ; <= 3 ?928 428 2A<B288 :58 2A JGB 28 23 988'
428 ; :38 32.=5 ?928 <29 .:5598' =' ' ; :58 29B
R8 4 8 E:98 5:98 88: ; ; 2M E2.'E:8 JB 548 ; :38
! :3 +, ' C' N B 54 .=2 ; 5 E:R'
' B 54 ; 2B. E:R' ! ' 2 JB 54 B2
; G42 +28 JB 548 B2 ; 2428 +28 <BG< B 3 :58 ; 2B25
B 2+28 4'5 83BG28 <:9B +2 3 '32 ; 253 42 + ' 8RK
<= + 8' ' 2 JB 54 B2 ; G42 82 4 3 988' 49 B2 ; G42
4G +5 3 42 22+9' 9?92 :5' ' B2.:9B8 ?9 54 +28
93B28 8:53 G<9 8G8' 2 JB 54 B2 ; G42 <:9B +2 ;
42 42538 .&283 4&8BB .=2B+'4253 ; + 42' # 2B ; 2

4& +.= ; 2' 2 JB 54 B3 & B3 42 B2 + ' < 2BB2
<= +:8:<= +2' 2 JB 54 :29EB2 E:R'5 ' 2B ; 2
4& =2 2552 +2J 8+ 3 :5' B 5428 94 25.28 82 4 8 3
428 94 25.28 ?92+2 < B+2 ; 253 .:58 .B 3 9A . 9828
428 B4+28 < B :<<:8 3 :5 9A <23 328 94 25.28'
' 58 5: 2552 :BJ 5 8 3 :5 @94 . B2 JB 548
@:9B8 E:R' ' B 54 .:582 + E:R' '5"7'
'7' + 82 4 3 42 +&"J2' 5 JB 54 "J2' 52 JB 542
@29528B2 "J2 3BG8*<29 E 52G 4 58 + 'E 2' 5 52 <93
+9' .:5 28 .2332 B2 "'. 982 42 8'JB 542 @2952882'
' B 542 E 2 +2882 "J2 3BG8* E 52G' &G3 3 95 =: ; ; 2
.:9B J29A H ! M2<< I 253B2<B25 53 23 4&95 3B E +
5 3'J G+2 ?9: ?92 4 58 952 JB 542E 2 +28825
'$$$' "' ; <:B3 53 <B 5. < + ' 5 428
JB 54 <B 5. <28 42 + ' <= +:8:<= 2' &283 95 JB 54
<: 53 42 8 E: B G 25 <B254B2 8:5 32 ; <8' S + ' E2 +2
4&95 8' JB 54 @:9B H+ ' G 3 +2 42 :B: I
= , ' ' ' , 1 ' ' 82 4 3 428 <2B8:5528 ?9'
89B< 88253 +28 93B28 < B +2 B 5J < B +2 <:9E: B
< B+' 4 J5 3G' 52 JB 542 4 ; 2' :9B JB 548 ?92
8: 253 +28 B: 8 +8 8:53 .2?92 5:98 8: ; ; 28 .:
'R:98 4 B *@2+28 5: ; 8 42 .28 JB 548 <2B8:5
5 J28' 5' ' ' 2<9 8 +2<+98 <23 3 @98?9& 9
<+98 JB 54 3:98 8& 394 253 "' 8 3 83 B2 +29B E B .2
-' ' 1 ' ' ; ' 8' :58 4GB2M .28 JB 5428
<9 88 5.28 ?92 5:98 B2J B4:58 42 8' G 8
! ,* ' C ' :+" +28 EGB 328 ' 2' @& ' "'3B +2B 23
?92 @& ' .B928 4 J528 4&G3B2<B:<:8228 "' 95 8' JB 54
<B 5.2 23 "'+' <+98 +983B2 882 ; G+G2 42 &95 E2B8
' G' E2M*E:98 ?92 & 53253 :5 42 29 5&283 < 8
?92 E:98 8:R2M <+98 JB 54 <:98 E: B <+98 42 89@238
; 8 829+2 ; 253 ?9& + R 3 <+98 42 89@238 "'?9'E:98
8:R2M 93 +2" ' ' ' " '0 + ' !
3' # < ' "7' &283*"*4 B2 ?9&:5 283 JB 54 < B 3:93 .2
?9'52 E 253 < 8 42 5:98 23 ?9&:5 52 283 5' 4 58
8' <2B8:552 5' < B 8' <2B8:552 ; ' ' '
'0 * ! ' 3' E < ' 8' 'BGJ+2 42 E: B
42 <+98 JB 548 ?92 8:'4:+3 E: B 828 B283B .3 :58 +
93 ?92+?92 : 8 4&G3B 5J28 3 +2538 <:9B + 'B249 B2
25 <B 3 ?92 ' ' 29A+8 42E25 93 JB 54
8:9E253 :5 42E 253 < B2' '+'E2B39 82 <2B4 ?9 54
:5 J J52 &2 ; < B2 ' 9 1' E ' B 542 B2 52
283*.2 .'E:3B2 <+ .23 5' & ' ' N' 2 A' ?92
<+98 :5 283 JB 54 <+98 E:8 .:9<8 8:53 "'.B 54B2'
' A " ' ' +98 +2 .:9< G+2 283 JB 54 <+98
JB 54 283 +2 89<<+ .2 ' # 'E F' 5 &25325
4 3 BG<G32B H95' 428 ; 5 83B28 42 <:+G:5> ?92
&2 ; <2B29B 5&G3 3 < 8 882M JB 54 ?9& + + 3 ?9&
+3 <+98 JB 54 25.:B2<:9B <:9E: B 8& BB 32B 7 '
' ' . "'+ %' B 54 82 J529B R4R' 83
J! ' ' ; + GB2 ; 253' B 5.=2B 49 JB 54 82 K
J529B + 2.32B +2 3B 5 +2 3:5 4&95 JB 54 82 J529B'
' G8:+9 ; 253' B 5.=2B 49 JB 54 32232B'+'JB 5K
429B + ' ; J5 .25.2'L' ; + 2B2 ; 253' 2 'JB 548
< B2538 +28 <+98 .:58 42B G+28 4&253B2 +28 <B:.=28
< B2538 23 988'+28 JB 54*<GB2 JB 54& ; GR2 JB 548
5.+28 23.' 2 JB 54 ; :542 E:R' 6 ' B
2A3258 :5 + 82 4 3 < B : 8 428 =:82 8 2 ' . 2 258'
25B ' ! 2 B2 982 "' ; 28 E:29A 95' E:B G+2 <<9
3 8' <:9B :5 932 .2 5&283 .=:82 882M JB 542
2582 ?9& + 283 8' JB 54 ?9& + 5& 9B 3 <: 53 4&2 *
B 542 & + 5&25 B2.2E 3 <: 53 ?92 4&GJ +28 "' +9
+ ' "'>2 E:98 .:582 ++2 4&G.B B2 "' 5:3B2 G:5
. B4 5 + 89B .2332 JB 542 ; :B3 + 25 82B '3:9.=G
8\E' = ' M :43 AM' 4 3 988' 42 29'
' ; :'H<:9B ; : 3:9328 +28 : 8 ?92 @& BBG32 +28
R29S S E: B +28 :B5G ; 2<38 4:53 33 < B28 >28 4 ;
9 H 29 ; 282 ; G+28 8' JB 54 23 5:98 8' <29 42
.=:82 92 ; :5 2532542 ; 253 2 <253 83 ; 52B
?92+2 ; :9B 32 4 8<:82 S 5:98 E:B 82B 4&95 B2K
J B4 82242 ; 253 6 ' ' ' 29 829+283 JB 54 ; 28
BGB28 23 4 58 .28 42 ; 2B8 ; : ; 2538 89B3:9+ ; '
<BG8 42 "'+' ; B3 428 B: 8 42 + '32BB2 ' = , '
'2 ' B 54 29 2A.+ ; 3 :5 4&'3:552
; 253 42 :B 532 23.' B 548 4 29A ? 54 +
283 ?9283 :5 42 < +258 A32B ; 52M JB 548 4 29A
42 + ' 32BB2 :9 5:98 8: ; ; 28 $9 .:5?92 E2 <+ *
B 4< 54 &" 8 5J 428 =: ; ; 28 9 '
+ 30W ' ' B: ; 233B2 @9B2B 828 JB 548 4 29A B2 42
JB 5428 <B:3283 3 :58' ' + 82 4 3 428 <2B8:5528
?9'89B< 88253 +28 93B28 < B +2 JG5 2 < B +28 ?9 *
+ 3G8 ; :B +28 < B +28 3 <GB538 23.' 52 JB 542
B2 52' 52 JB 542 ; <GB 3B .2' 5 JB 54 <2 53B2'
5 JB 54 ; 98 . 25' :5 ; GB2 G<:9E 53 ' E:3B2
JB 54 55 G + ' . 5 ' + '82BE' &2 ; K
< B2 23 93 JB 54 . < 3 52 ' ' ' 2
JB 54 . B4 5 + 42 + .=2+ 29 ' +2 '
B8?92 E 4 93 8' JB 54 J92B42B 4=<+:B ! '
; :B3 42 429A ; 29A . <3 528 ?9&:5 25 342
<2B4B2 +29B 4:55 ' .23 G+: J2' <+98 E 328' ?92 +28
J+28 <+98 .:9B J29A ?92 +28 + :58 5' c 9 8 +
' , 1 ' >2 E:98 4 B 8 ?9& + 93 ? <+98 JB 54 42'
5:8 <B 5.28 '&' 'E @'' * 2 JB 548 =: ; ; 28

.: ; ; 54 253 42 <23 328 B ; G28 23 .28 B ; G28
8 253 42 JB 5428 .=:828 2 ' B 54
<:+ 3 ?92 JG5GB + .. : ; <+ ; :42832 9 ; + 29 428
<+98 ' 5 4 8' 2 ; <+: 8 23 428 =:5529B8 +28 <+98 G.+
3 538 ' ' 'C>,/'3' 5 <' 7 4 58
' ' +" . : ; ; 253 :5 42E 253 95 JB 54
= : ; ; 2 42 J92BB2 - 3G' 3'E < ' Y ' :98 8: ; K
; 28 882M JB 548 <:9B G3B2 8 58 25E 2 , 9 *
' ' # 25B' ?9:' 5:98 BGEGB:58 9@:9B4&=9'23
?92 5:98 ; :58 8' :5 :82 +2 4 B2 . : ; ; 2 95 4 29
393G+ B2 G3 3 95 3BG8*JB 54 = : ; ; 2 ; 8 +2 32 ; <8
42 :9 8 S ' 95 3B28*JB 54 8 2.+2 - -
, ' 3 ' B3' ' 2 JB 54 :54G <+29B 53 9A
E2B8 49 JB 54 :B52 +2 - ! ' 0 ' < , '
:98 + 258 <2B4B2 +2 JB 54 # ++2B 23 <B:G G+2
; 253 "' &=29B2 ?92 @2 E:98 G2B 8 + 5&283 <+98
E:98 5& E2M < 8 G28: 5 ?92 @2 E:98 882 8253 B
3:932 + ' JB 5429B 42 .2332 <2B32 E:98 ?9' 8 E2M
.: ; ; 2 ; : '3:93 .2 ?92 + ' <=R8 :+:J 2 + 'G:3 5
?92 + ' ; G42. 52 +28 +233B28 + 'B2+ J :5 4: E253 '
.23 =: ; ; 2 988' B28<2.3 G+2 ?9& +983B2
= ' 4 3/' C>,/ ' 3' < ' W 4 58 ' ! :5
25 53 ?92 G.+ B 8 5 83B2 ' &G3 3 8+B2 4&95 K
E:B2 $9'82 .B:R 3 95 JB 54 ; 5 83B2 $9 54 42
5:8 ; 9A + E +B 8G ' - ' + , ' ' 5
JB 54 28<B 3 952 <2B8:552 B2 ; B?9 G+2 < B &G
325492 42 82 ' 4G28 < B + 'JB 5429B 42 828 .:5.2<K
3 :58' +2 E + 95 JB 54 28<B 3 42 JB 5428 E928
95 JB 54 B3 42 <:88G42B 5:G+2 ; 253 952 JB 542
:B3952 8 E' Y B' N "' 3B2 42 J+: B2 42 .2B3 58
<B 5.28 :9 <2B8:55 J28 ++983B28 Q25 .23 2 ; <+.4'
B 54 <B254 952 ; @98.9+2/ 23.' +2A 54B2 +2
B 54' #25B'"2 B ; ' 53 BGJ: B2 +2 B 54'
:98 S ? 'E25 '42 B2.2E: B +2 5: ;' 42 B 54
"' &=G32 42 8B +2 42 ' 8' 25 BB ' C1 /'
, ' ' ' 2 B39 2 2889R ' 93B2K
: 8 42 <+98]E :+25328 .:53B 4 .3 :58' + 93 25 5
E25JG 428 =R< :.B 328 @&28<GB2 &G3B2 428 5 3 ?928
2 B 25 5 ! =: ; 23 283 B39 2 +2 B 54 - =
/ ' '],'82<3' C" / 5 B2 ; B?92B '?92+&2< 3=23:'
82 ; 23 E 53 +2 89G83 53 'Q<B8?9& 5< B+2 49 ; 2B 32
49 <2B8:55 J2' +2 JB 54 +2A 54<2' ! 8 +:B8
?9&:5 E293 4 83 5J92B +2 <2B8:55 J2 4& 93B28 ?9
<:B3253 +2 ; ; 2 5: ; ; +:B8 &G< 3=G32 4: 3 3:9@:9B8
G3B2 <B28 +2 89G83 53 ' +2A 54B2 +2 B 54'L %' +K
+983B2' N328*E:98 4& 3=G528 + ' JB 542"
- 1 ' C 5 + 2 4:53 +2 5: ;' 283 JB 54 < B ; '
+28 >9 8 ' ' ! :5 .:29B @ +:9A 49
8:B3 4:' .28 JB 548 ; +=25B29A 293 8&4+2E2B ;
4 ; 2 23 3: ; G2B E2.'29A ' ' *BE Y' ! 23B2
5 3 :5 ' _ 3 952 J+: B2 42 . < 2B +2=B8 ; ; 9B8
,H428 JB 548I ' 3:93 42E 253 =:5:B G+2 4& <BG8 52
JB 548 B:4G+28 0 '* ' >7 ' ' 52
JB 542 ; 8:5 952 ; +2 +983B2 < B 8:5 B 5J
< B 8:5 5 25523G'>2 E: 8 + ' ; 8:5 42 B 5.2 "
<+98 JB 542 8 58 . : ; < B 8:5 42 3:93 &95 E2B8 23
"'?9' +28 <+98 <9 88 5328 ; 8:<8 <29E253 G5 .G
42B W 58 25E 2 <9 8?9&2+28 3 .G253 42 3 BG5 +29B
J+ ; B2 42 .2332 8:9B.2 ! C
JB 542 5 3 :5 32B ; 2 82 82BE 3 8:98 2
<B2 ; 2B 2 ; < B2 <:9B 4G8 J52B + 5 3 :5 B 5< 82'
2<9 8 4 A 58 +29B8 B:9328 H428 4G< B32 ; 2538 42 6
83 G3 253 .:9E2B328 42 E:R J29B8 42 3:98 +28
B 5J8 ?9'E25 253 4 ; B2B +'JB 542 5 3 :5 + '
< 3 +2 .= ? 2 @:9B 2 ; G2++ 2 +28 .=2 8*4&:29EB2 42
3:98 +28 B38 23 42 3:98 +28 8 2.+28 , ! "'+' E .3: B2 R
E + B 882 ; G+G8) ' . "
N B 54 42E 53 95 89G83 53 B = ' 4:552 25 *
G:552 :925 ; 9E 82 < B3 9568258F9<2B+ 3 ' B 54
G9E25B' B 54 <:+3B:5' B 54 ".=2' B 54 ; GG
.+2' B 54 ; 25329B' B 542 G B42'>2 E:98 .B: 8
JB 54 + 3 5 23 JB 54 4:.329B @9BG ' ! " ?"
' B 548 B 83 B?928 42 B2E:9A ' - " 'YR'
: ; GB +2 JB 54 3=G:+:J 25 23 +2 JB 54 <B:<=G32
428 B2.8 ' 3 , ' '$ '3 3'AA9 '< B3
<' C 4 58 ' ; + GB2B:253' 8 8253
JB 548 ; 8 0 ' 8:53 + G8 < B & ; 3 G' C' :9B K
J29A ; J5 5 ; 2 5:G+2 3 +2 '+2..89B JB 54 =8
<B 3'54 ' ; 2 JB 54 2 3 3:9328 +28 JB 5429B8
4:5382 395 JB 54 B: . : 3*> . : ; + ' 3 93*
8:98 3 'B J2 "'328 < 248 G 339 + 283 <+98&JB 54 ?9:'
3: ' 8& + ' <+98 42 E2B39 ; '& ' ' 28 8253K
; 2538 4&. BJ92 + ?9' :8BB: ; <253 4& 93 53 <+98 +2.'
; 28 ?9&2+28 8:53 <+98 JB 5428 23 <+98 G+2EG28
' < ' & ' 92 @ ; 8 :5 5&28 ' JB 54
?9& 93 53 ?92 &:5 283 @98322 :5A # 7 ' >2 E:R 8 *
G 25 ?92 E:3B2 " ; 2*G3 3= 932 ; 48 @2 52 8:9<*
:55 8 < 8 ?9&2+2 3 JB 542 ' < ' > ' '
4 ' +2 B:'<+9 JB 54 , ! "' + :B3952>+G4 J5 3
.: ; ; 2 E2 +8 952 <: ; <? ; <:B3952 C> " ,
' ' 3 <B ; 3 4G8:B ; 8 @ 22 8253 ; 2538 <+98
JB 548 35 B9398 4 ' + ' 58258 G+2 "' 8 ' .=932 23
J5 ; 4 4 58 828 ; 8GB28 "'U ' ' >2 ; 2825 E

O(("< 7'0/# 4*!" /" 40(%0;!("' SO%'-&'I'
!' +" 2'*-(O(("< HO/# 4*!" *!%&-"" 1*!%'07"' +'
A " '.' O'NN O-'" !/" 26*(" #" 7'0/# 2*"!' &O
$O-'" %'M(@.*&*/%-"'(' NN Bi'Q!-' O' !/' 20'O2%%'" #"
/*;&"((" "% #1M ".O%-*/' Q!"& "(% 2" .-"-&&O'# ;&O/2'
O."!7&" "% (O/(O44!-$ "'O-%2" -+' 6O;-%O/% #"
"+4-'" 2"&"(%"3 (C' %'O-%((*/% 7'0/#("% $-"'('
' 2OH ' $ 4 ' , ' NN "'+"#" ;"O!:@O'%('
'0/#" +O/-;'"' +O/--'" O44'*4'-#" O!:' (!9"%(' /*K
;&"(' O!:' 2*+4*(-%-*/(.O(%"(' "% #" 7'0/#(' #-+"'/K
(-*/(' ')F -%'" #"(#-7/-%O-'"(' &"(4&!(-&".$2
#O/(' &"'!"*'#"' 'O/# +O-%'" #" 1!/-."'(-%-' 'O/#
26O/2"&-"" #" &O 7-*/' #16*//"' ' 'O/# 'H='"/@
#O-'"' 'O/# 26O+;"&&O/'S*/O%6O/'$-&(#!'*-'MM%O-%
7'0/# +O-%'" #!' 4O&O-(' "% 9!7"O-%' &" 4"!4&"'
'1 ' '-.':.'M' ?*/' 4M'" $!%' O!((-' ,!"&,!"
%"+4(7'0/# &*!."%-"' @(-!'" B ' NN O/(!/'"/(
O/O&*7!"' 'O/# 4'#%'"' 7'0/# 4*/%-$" 7'0/#" 4'M@
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2"(("!' " /*%'"#"' /-"' '*-' S*(O;"%6' "(% &O (*"!'
& ' ' -%'" #*//#O!:' 26"$(' #" 2"'%O-/(
*'#'"(' 'O/# +O-%'" #" ?O&%'" NN /' #-%' #" + +"
7'0/#" +O&%'-("' NN " #-%"/2*'" #" 2"'%O-/(*$$-2-"'(
4'-/2-4O!-' #"(+ +"(*'#'"('O/# 4'-"!" #"(
'O/2"' 'O/# *$$-2-" #" &O 7-*/' #16*//"!' 'O/#
2*'#*/' "' '*-' +O/#O' '+*/("-7/"'!" #!"/.*8" #"
7'0/# 4'-"!" '&O O(%-&&"' B '"'' Y)' NN 'O/#-'
2'*--'.*8' 2" +*%O (O 4&O2" NN ?*/(-"!" &" 'O/#
(" #-(O-%' #g (' 1O/2-"//" 2*!' #!' 4'" +-"#2!8"'
#" &O 7'0/#" 2!'-"#!'*-' '*-' #-%' +*/(-/"'("
'0/# U *!-(#" *'O-/"' 2*+%"#1 +O7/O2Z' O2"
2*++*#"<@ *!(4*!" &" 'O/7O."2 &" 2*+%" #" *-(@
(*/('(.') ' ' "#-%"/$-/ #"2"%O-/"(26O-("(#"
#-."'(+*/O(% '"(#16*++"(-'*!' #" $"++"(' &O/#
4'-"!" #" &!/8' O7'0/#" 4'-"!'" #"%"&&"O;;O8"'
'0/# .-2O-'"' .*8'.- -O7' d -%'" #" 2" K
%O-/(4'-/2"((*!."'O-/(' " 'O/# "-7/"!' "
'O/# =6O/' " 'O/# ?*7*&' " 'O/# !'.' "
7'0/#@#!" #" *(2O/" ?O6*+"% ' $!%&#" 4'"+-"'
4'-/2" *%%*+O/' ,!O&-$- ' 'O/# !'" 4O" &"(*6' @
%-"(' "/' 'O-(*/' #" %"6#!" #" (O #*+-/O%-*/' 4O"
2*+4O'O-(*/'O."2&"(!&%O(' #1 2*/-!+',!" ?4/(%'"&"%
(-7/" (*!(&" /*+'#*' "%-%' !'2' NN /' #-%' #" + +"
!/' 7'0/#@#!26#' NN d "'+"#";*%O/-,!"' 'O/#
;O!+"' &O %O/O-(-"' 'O/#" +O'9*&O-/"' 1*'-7O/'
' "'+"#"' ' 2 ' 2O26%#*%' &"' 468("%"'
d 'O/#' #" .O/%!/' 2"'%O-/'/*+;'"#" +*%($ @
+-/-/(' /" 4'"/# 4O(1" #!' $ +-/-/' /'.*-2-' &O
&-(%"' ' 'O/#!;O/#" O/2-"//"+"/%' (*'%" #!*"@
26"(%'" 4*!" #O/(' '"' ;O& "% &O 7'0/#!;O/#
(O.*-" #"!:' +!("%%%"(" ' *'%'&-'Y EE /'7'0/#
2"' +*/-"' ' - '* , 'EN 'O/#@
26O+;'"' !/" 26O+;'" #" 1O/2-"/'4O'&"+"/%' 1"(%
;*// %"% ' ? ' #" O'&O8' "% /*/'4O(!/' #".*-"
#" 4'"/#'" O.-(#" &O 7'0/#16O+;'" ! %'
/'%*!%"' O!%'" *22O(-*/'*/' #-%-' !/'" 7'0/#"
26O+;'"' NN 'O/#26 '" O-'"7'0/#!;#'" 7'0/#"
$O!#'O-%#-'"' $O-'" %+" 7'0/#" 26 '" NN 'O/#26*("
S" .*!#'O-(' +!"/' 2*!% %@-& 7'0/#26*(" *!" &O
;"O!% '#!' $O-%'O.*-" 4"'#!' +O 2O!(" A '-'
' /'%'*!."O!((-'7'0/#"26*("(;-"/' +*-/('!(-%'
" /1 %O-% 4O(7'0/#" 26*(" 4*!" &!-'
2 ')' ?O-(-&$O!#'O-%#-'" ' !" 7'0/#"26*("'
'O/#1"*-$$"' O (O7'0/#1"*-$$"' (O $-/" %O+-/"'
9 / ' +' NN 'O/#1$O-+' 'O/#1(*-$'
*++" 26O6@ ;;O(O.O-%7'0/#1$O-+'&"(O&-+"/%(
7'*((-"'(&!-'4O'!"/%4&!(7O' O;&"(!" &"(+"%(
":,!-(#" (O%O;&"'." % :-:' 4') ' 'O/#1(*-$' ;*/
O44 %-%' &*' / '%O' ?O-(-&$O!#'O-%#-'"
!/" 7'0/#" $O-+' !'/" 7'0/#" (*-$'NN 'O/#1 7O'#"
"/' %"'+"(+-&%O-'"' (*%" #" 4*(%" O.O/2 ' /"
7'0/#" 7O'#" ("'O-% %*!% O!%'" 26*(" ("'O-% !/"
7O'#" /*+;'"!("' NN 'O/#16 %"' & O.O-% "!' 7'0/#
6O%" #" &O +O'-"' (.' M ' NN 'O/#16*/%"' Q!O/#
%'*-($-&&"(4O((O/%' !!/" #-% > 1"(% 7'0/#16*/%"
!1-& $O-&&"' .*-' O-/(-' 2&*26"' 2" 9" !/" $-&(
M.H&'- 1 ' &&' ' ?O-(-&$"!#'O-%#-'" ' !/" 7'O,#"
6*/%"' ' 'O/ + '" *8"< 7'0/#1+ '" ' (O 4&O2"
'0/#+"((" ."<@.*!("/%"4#!' &O 7'0/#1+"(("3
'O 7'0/#14"-/"' O 7'0/#" 4"-/" /1"(% 4O(!(-%'
'O/#14"!' ' O 4O!%" $"++" "!% (-' 7'0/#14"!'
Q!!"&&" 26"'26O ,!"&,!" O((!'O/2" /%" &"(' ;'O(
#" (*/' 4*!:' - 1' ' ;E' ?O-(-&$O!@
#-O-%#-'"' !/" 7'0/#" 4"!'N 'O/#14-%' "4O!."
O!<!/' /" .*!($O-%@-& 4O(7'0/#14-%-'3(.' RA'
?O-(-&$O!#'O-%#-'"' !/" 7'0/#"4&%- 'NN O 7'0/#@
'!" ("" #-%(*!."/% #" &O '!"4'-/2-4O!-' #!!/" .-&&"'
' 'O/#1(O&&"' (O&&" #!' 4O&O-((#"9!(%-2" ' O'-(' O
26-2O/" "/' $O'"!' +!7-%#O/(&O 7'0/#1(O&&"'(*!'
' .+' O'%*!% O-&&"'!(" */' #-% / !/" 7'0/#"
(O&&"' ' O 7'0/#1(*"!'' 8O/% (O/(2(("'%&#" 4 '"
% &O + '"' % &O 7'0/#1("!'' O."2 &" 4"%-% $' '"'
" ("(#"/-"'(+O'-O/%&O 7'0/#1(*"!'' % #%%4"%-%

4O8O/%&"' 4' 2"4%"!'' ' ' 'N *8' "@!'
' ' (O 4&O2"' NN O */%O-/"' O' #-%' "/' 7'0/#1@
4*+4"' &-;"26$!%$"(%-/ " "/' 7'0/#14*+4"' / 1 '
'?+" #" .-7/ ' O' #-% &O 7'0/#1+*#"' 1"(% &O
7'0/#1+*#"' (. ' ' NN O!7"&O(' O' #-%' O' 4&!(
7'0/#H-O'%'NN? /O7"#-% ,!!*/'/1O'4*-/%%'*!. '#!O%%@
%'" 'O-(*/' 4*!" ! &-(-*/' #" !"#O/(2P(2O(,!" !@
(O7", !-' 1O %O;&-" ?O-(#!!/" 4O'% -& /18'O' 4*-/%
#!" &-# "% #!O!%'" 4O'%&O-('O-(*/' #" 2"%%"" $*'+"" (%
$*!+-" #" &O $O,*/' &O 4&!((-+4&" +O(2!&-/"' #" 2"%%"
&O/7!"' 2 ' ."/O/% #! &O%-/' ' ,!-'O &O
+ +"%"'+-/O-%-(*/'4*!"!'"!' +O(2!&-/"!-
/1O.O-% /*/' 4&!(,!!/"' ("!&"%"' +-/O-%-(*/' 4*!"!'"!' &"(
#"!:' 7"/' #O/(1O/2-"/' $'O/.O-(' 6O;-%"!' 2"!' 6O'&"
A ' %2' "% !(O7" 4O'$O-%"+"/%' 7!&-"' 2++"
/' .-%' (" %'!. 'O' 2*/%' O."2 "/' 2*++O-'.' +-/2 !
(!'.-/% "%' !-#*/O' 2"(O#9"2%-e' !/"%' +-/O-(*/'
$ +-/-/"' ?O-(' #" 2"%%"' 2*/%O#-2%-*/' -&' (!&%O
,!" '$!%' +O-/%"/!' 4O'!" ' 2O/2 '" 4O'&"" 6O;-%"!' &O "/'
O22*'#O.O."2,!"&,!"(/*+($ +-/-/(' -/(-&/18'O
4*-/% #!"' &-# ' "%' 4O'%O/%' 4*-/% #O4*'%"'*46"'
"+%%%" & ("O-%"+"-&&"'!"#" (!44'-+"" "%%' O4*K
(%*46"' ,!" #"4' "/"' ' !(4'-&O &O $O!(("
#!!/" ("4!44'((-*/'!/' O/*+O!-&-"(O/(' O-K
(*/7 +O-(!/'6*++"("!&1O 4O(O!%*"-% (!- (O/%"'
-!" 2"&O' *8' ' "@ ! 1O/*+O&-" "-#-2!&"
&O,!"&&" 2*/"/-&"'"" O4*(%*46"'K" '+'"(
7'0/#(' &"(4"'"(*//"("#1!/' 7" $O-%' 4O"*44&-2O%-*/'
O!:' "/-$-+%'" O2*/%'#" $O;&"(*%%"<"O+-O%-*-.
7'0/#("%'4"%-%' 2*!"'"/%' 7'0/#4 O4' O4O.+*'!!
1 ' ' " NN O/(&"(&O2 "("% 2*&&O7"%' &"("'
7'0/#' &"(2*-%' &O2"' 2*!&O2"'
#-%O!((-O!' (-/7' &" "' -%' 7'0/#' NN " +-/-/"%'
!%%' #O/(&"(%*-/7 +O(2*-% 7'0/#'
7'0/#"' ' K@ 4"(*//O7"("/' #" -7-/O-' "4"+%
6*++"(' %%"' O-(-" (*-%-' *%O(!"2'0/#" /'%O"'
7'0/#(O-(-' ,!-/7-+O%' 4"-/-/'"#"' "' %"%"'
#",!-'/%' /"(%' +O-%&O+O4&*O"/'O/-"'
O22-#"/%(%' (*4"(%%'+4&%%*O-)"# '
" (7'0/#('4*!"(O/O 2"+O4"'*&6"% !#"/%(
-//O/ .-/" "/' .*6&O-%' +!%(O&-'#O/(!&-' "/%
+O($' -O%&*'*-!""(!/' O-4+'"(" /"O%-(*/'
O ' 'O(O+O-/%('"'
%"+4' "(%O/(*'!%-*/' '&&O +O/O-+" O;"
+O(%/%' #'&O/%-O/-&/-&&O-&&'&"
,' "%!"+"-/-/" #-'
(2*!%%"' ' "% #"2'

+'<B2; B2 4 83 5.3 :5 25' 8< J52O 9'4:552O253B2
93B28 <B E+ J28O .2+9' 42 82 .:9EB B' 42E 53'+2 B:
' RO " ,!1-&' 8'O' #" 7'+#' #1 &". '#" /*;&"' O
$*!(("7&*-'" /" &" %"/%O-% 4O(5'%*!%"/#O-% O!'.'O-
"%O!'7'0/#' '=,' '' ,1 ',' 8'O 2-/,'
(*!'2"(#O'7'0/#' 1 & .O%-*/'#1"(4'-%'&" 4O%6 %-,!"'
&"($-7!'"('&O/*;&"((" #" 1":4'"((-*/'&O 2*+4*(-%-*/'
"% 1O''O/7"+"/%#"(' 4O'*&"(' ' = '#,1
' "(%8&" U#"(' $&O%%"'!"(@("'%O!' 4'-/2" '("2*/(*K
&"'"#!'7'0/#' "% #" 1":2"&&"/% 4O" &" + #-*2"
' 2' %&'-& 2*++"/,O 1": 21%-*/#!/'#"(("-/'
,!!-&' + #-%O-%#"4!-(&*/7%" "+4(' #-7/'#!!/'6*++"
O22*!%!+ ' O!' 7'0/# 4"/#O/% %*!% &" 2*!'(#"(' #" (O
-"' A +O'26" ,!-' (-' "&&"' +O/@
,!O-%#"' (!22 (' /"4*!.O-% %' "9!(%-2" 4O' #O/(!O/(' 2
#!'4"%-% /*+ (' '" #"'2"!:' ,!-' 2"!:' O 2"!:' 2"!'"/%
4O'%%O-% /*+ (' /"4*!.O-% %-/%'(("(/*/%/(%(/(4"%-%/"%O4%-*/
4O'%%*/%/(*O/%4O4O/4"%-%/"/' 7'0/#' 4*%*/O'/%4/%
&"'(4/%O#"'+/(7'0/#4'#"'O(.%('4*4"/%4"'
"(4'-/#"'"#"&"/%4O/%%-+O/(+/'!(

.O-/!"' ' ' C ' '4') #O/(
& U&"" 2<O" -"''J O-+O-% 7'0/# ,% 1":%'O'*#@
/O-'" O!%O/% ,!" 6O'&"(O&&' *%' "% &;"'*/-$
+O-(-& 1O-+O-% "/' $*/#O%" !" # ! /' %O%' "/' & 7-(&O@
%"!'"/' .'O-4*&-%-,!"' &"' &" /' ' B S" 2'*8O-(
,!1*/#%&O $O-'" !'7-H#' "%#!' /'!$' # "(K
%O!' ' '* ' NN "'+" #" ;"O!:@O'%(
7'0/#'* ' ,!-' (" #-(%-/7!"" 4O" 1'O 4'-((O/2" @
2!%-*/' "% &' 7'0/#' "% "' #" 4"/(" "% NN #-% O!((-' #!'
&!:"' #" &O #" 4"/("' "//"" #O/(&"(7'0/#' NN !
4"/%-%O!" 7'0/#' "/' 2*++" ,!" 4O'&"&O O 4"-/" 4O'(O '(-' !
7'0/#(' ' &&'" #!' 4"/%O!" 7'0/#' 2*++" "/2*!'" O!:" 4O-/"
#" 4"/%-%(" 26"(' !"44"%-% "/' 26"(' 4O'"!' 4&!(7'0/#
'7!+"/%"'$!" 4"-/" 7'0/#' %-'(4-&%-" ' -'+%
&O 4"%-%%%' ! /" (*-%' 7'0/#' "/'4"%-%'4%' +"/-"% !'
"/2*' 2O/' !" &"' 7'0/#/ *(-" 4"%-% 4"% '+-"/7'0/#'
4*-%' ' /4"%%' 2*+%%"(#" 4"%-%"%"+%%' " 7O-&&"'
7'0/#' ' "' "/-$-+"*"'%4O' +O-' %' %-%(

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O'%"'%' ! '4' -7' Q!1"/$-/' 2*/%'" 2"%%O .-"-&&"
70'#"' 2*/%'" 2"%%O $*'%"''((" .-.O/%"' 2*/%'" 2"%%"
2*&*//" #" 7'O/-%' 2*++O (*/' 26"$&O.O-% O44"&H"'
&O(' 6*++"(' #%O-"/% -+4!-((O/%(' O% ,!O #O(' 2O/*/('
4*!.O-"/% (*!&(' &O #H+*&-'' (H*!O' ' . "
(' O(' %'-6!/(' *44*(O/%' &*'(,!1*/' &O(' 'H!/-%' /"
26O'%"#" 4 %%'" O-!' O;!(' #" 7'O/-%' .' "
A' ' /' %'*!." O!((-' 7'O/-%"' NN d *'%" #1O44O'"/2"
#*/O%" '&O '"&-!'"' " ' !/' ;"O!' 7'O/-% (!"
!/' &-.'O +O& $O-%' " 4"!% 9O+O-(' 4'*#!-'"!/' ":2"&K
&"/% "$$"%' ' '$, '4')
' ?' O%@&O%' , ' 7'"/!' #!' &O%-/' '
/P+' 7'O-/5 -%O&'

' D7'O@/-@%$"@ E' 6' ?O';'" 7'O/-@
&"&&"' +O';'" ,!-' '"(("+;&" O!' 7'O/-%' NN ' +' OK
'-"%8 #" 7'O/-% 7'-(' é4"%-%(' 7'O-/(' ,!-' O' ' %'O.O-&&#"
4O" &"(' O/2-"/(' "+O-/(' 2*++" #!' +O';'"' UN *'%"
#" '**6"' .*8HH
' ? O(@&O%' , ' (*'%" #1"(2O';*!2&"9
#" , ' 7'O-/

%' = $-' $-' D7'O@/-@%;&@&#' #"E' 6'
"'+" #16-(%*-'" /O%!'"&&"' */% &"(' 2*!&"!'(' (*/%
#-(4*(""(' 4O"&O26"(' #"+O/-;'")' -+-%"'' &" 7'O/-%
%' ' D7'O@/-@%"E' .' ' +-%"'' &" 7'O/-%
O."" #" &O 2*!&"!'
' # $ ' 2

%' O' 'D7'O@/-@%"#'%"#@<1E' 6' Q!-'
O '044*'% O!' 7'O/-%' 2*+4*(# #O 7'O/-%' " 4'#%"/#!'
7'O/-% ."-/# "(% 2*+4*(" #" ' #" 7'O.-"' 7'O/-@
%"/:' (%'O%-$-#(' 4';(' #!' &-"!' #" 1*'-7-/"' ' 99$%@
' %' ' 4' M' /*%" S- NN &O/%"(' 7'O/-%"!("('
2"#"(' ,!-' 2'*-((O/% 4&!(' 4O'%-2!&-#'"+"/% #O/(' &"('
%"''O-/(' 7'O/-%-,!"(
' ?' '*/-%

\' -%& ' D7'O@+@%-/E' ' ' *!' '
D7'O@/-@%-@/1E' ' ' "'+" #" +-/#'O&*7-"' *26" O
;O(" #" $"&#(4O%;' &O+-!O-'" O% #" ,!O'%<' ,!1*/@
/*++" O!((-' 4"7+O%-%"
Q ' D7'O@/&@%-@[ ]' ? 'Q!-' "(% #" &O /OK
%!'" #!' 7'O/-% *26" 7'O/-%-,!"' "''O-/(' 7'O/-K
%-,!"(' O% (26-(%"!:' ' A '%' !-' 4' WRA
' ?' 2

%' % ' D7'O@/-@%*@-@#1E' 6' "'+" #"
7#*&*7-"' Q!-' '"(("+;&" O!' 7'O/-% &!(-,!'(' .O@
'-#%#(' #" 2"(' 4-"'"(' N4*/2"(J' #*/% &"(' !/"(' (*/%
2*+4O2%"(' "% 7'O/-%*-#"(' "% -/#-,!"/% &" 4'"+-"'
4O((O7" #!' 7'O/-%)' &O 4-"''" 4*/2"' ' A
%' ' 4' - "
' ?' 2 ' "% "% *3' $*'+"

' D7'O@/-@%*@/1E' P' ' "'+" #"
+-/#'O-*7-"' O'-#%# #" '*26" O/%-,!"')' ;O(" #"
$"&#(4O%;' 2*+4O2%" "% ,!-' 'H/$"'+" #" 7'O/#(' 2'-(@
%O!:' #1O+46-;*&" #1!/' /*-'' ."'##%'"
' ?' %O&' 'O!7+"/%O%-$#" '
7'O/-%

%' ' D7+@/-@.*@'1E' *#9' "'+" #" <**@
&*7-"' Q!-' .-% #" 7'O-/(' NN# ' ' "' ' -("O!:' ,!-' .-@
."/% #" 7'O-/"(' $O+-&&" #"(' 2*/-'*(?H(' *'#'" #"('
4O(("'"O!:' ' "(% 2"'%H' ,!" 2"(' O/-+O!:' U&"(' O!@
%'!2;"(& .-."/% 4'-/2-4O&"+"/% #" +,%-;'"(' .#7#&O@
&"(' ,!1-&(' */% &" 7#(-"'' +!/-' #" +!(2&"(' %'$"(@$*'%('
2*++" %*!(' &"(' 7'O/-.*'"(' ' C ' % ' ! '4' R B
' # $ ' O%' , ' 7'O-/' "% / ' +O/K
7"'

%' @ ? ' D7'O@/*@&O@+;&@&#@'1E'
6' "'+" #" +-/#'O&*7-"' Q!-' "% 2*+4*(# #"
7'O-/(' ,!-' *$$'"/% #"(' -/#-2"(' "(/(-;&"(' #" 9*-/%('
!O%!'"&(
' # $ ' 2 ' "%

B8 ' D7'O@/!@&O@91E ' I' -X' 2%-*/' #"
7'O/!-"'5 '#(!-%O%#" 2"%%O" O2%-*/
%' ' D7'O@/!@&#@'1E' 6' "'+" #"
+-/#'O&*7-"' Q!-' (" 2*+4*(" #" 4"%-%(' 7'O-/(' '#!@
/-(' #" 7'O/!&"(

' D7'O@/!@&O@(-*/E' ('$ & X' 4#@
'O%-*/'4O" &O,!"&&"*/' '##!-&!/' +#%H%& "/'7'"'/O-&&"'(
4&!(' *!' +*-/(' #!"(' "/&" $O-(O/%$*/#"' &" $O-(O/%
4O(("'' O 1#%O%&-,!-#(-('O%'O."'('(' "'("%#"2-;&"'
"%&"''"2".O/%#O/(' !/' .O(" "'+&-#1"O!' NN d 77&*K
+"'"O%-*/' #"4"%-%(' 7'O-/(' NNYd "'+" #" ;%O/-,!"'
44O'"/2" 7'O/!&"'(' #" 2"%-O/2"(' (!;(%O/2"(' .#7#@
%O-"(' d "'+" #1O/O&O%-*/' 'O/!&O%-*/(' 7'O-(("(' '!@
("(' 2*'4(' +*#2!&O-'"(' $*'+" !/-,!"+"/% 4O"
#"(4'-/2-4"(' 7'O(' NN 'O/!&O%-*/' +#/-/-7-"'/"('
4"%-%(' 2*+H' ;;+2;#%'"(' 9O!/' %'"(' *!' *'-!'"(' %#%'(
,/*/' .*%#')' &O #!'""'NNRI' "'+"#" 4O%6*@
&*7-"' "%-%"(' %!+"'"(' O'*'#"(' "(' ";;O-&&"'
7'O-/(' NN 'O/!&O%-*/(' 7'-("(' ("#"#-@%"O/(' 4O"'("(
4"%-%"(' -/#7O %#(' 7'O/!&"'"(' ,!-' "(' $*'+" !(O @@
(!$O2" #"' +"+"(' 'O/(' #"'"(' 7'O-/(' #"(' -/-/$&O+-@
+O%-*/(' O-%' 2*''"' !/-,!"'!/' 7'O-/'%*!'(' #"(@
(#+-/"('(' #"(' #!' !' '*!' 4*!'
' # $ ' 2 ,

-' O - ' D7'O@/!@&O@%*-@'1E' ' ' /K
(%'!+"/%4*!'" '##!-&"&"(' +#%O!'"('/'7'"'/O-&&"
' 2 ,
3' 'QJB *59* /O 6' 'IL O 23 3 JB 5'
' ' 2B ; 2 42 G:3 5 ?92' :B<8 B2<B:49.329B 4&+ 52
<+ 538 .BR<3:J ; 2' IL ' 2B ; 2 42 <G B ; . 2' B *
J42 .: ; <:842 42 89.B2 23 42 J: ; ; 2O 52 .:5325 53
+2 <+98 :B4 5 B2 ; 253 ?9&952 <:B3 :5 3BG8*<2 32 49
B2 ; 242O ' ; +& JB ; ; 2 < B 2A2 ; <+2 89B ' .253 K
JB ; ; 28 42 89.B2
' (!' O%' , , ' #-+-/!%-$ #" , '
7'O-/
O c ' QJB *59*+4O +22/O " ' " ' 42
JB 59 2B' Lb ' :B ; 4 42 <23 38 JB 58' ! BGB2 JB *
59+4' 6 2B ; 2 4&= 83: B2 5 39B2+2' $9' B25 2B ; 2
:9' <:B38 428 JB 59+ 3 :58O :9 ?9' 25 ' & << B25.2
' D7'O@/!@&"E' . ' "#!-'" !/' +#%O&
"/' 4"%-%(' 7'O-/(' "/' 7'" '/O-&&"' ' 'O/!-"" #" 1#%O-/'
#!' 4&*+;
-' (!' 2 ,
SO ' QJB *59*+24O +2 +*M&/O' 6'
' $9' 283 25 <23 38 JB 58' 2BB2 JB 59+2982'
@L ' $9' 283 G89B .2 B9J92982 23 .: ; ; 2 B2.:9*
E2B32 42 <23 38 JB 58' IL ' 2B ; 2 42 G:3 5 ?92'
$9' <:B32428 39G2B.9+28 25 :B ; 2 42 <23 38 JB 58'
']' 2B ; 2 42 ; G42. 52' $9' <B282538 428 JB 59+ K
3 :58' :9 ; :5 JB 59+29A' Lb ! + 4 2 JB 59+2982 428
B2 58O 4 32 988' ; + 4 2 42 B J=3 Q< B.2 ?92 B J=3O
; G42. 5 5J+ 8O & ' 3 .:55 +3B2 +2 <B2 ; 2B/O
2.3 :5 . B 23GB 842 < B 952 +32B 3 :5 JB 59+2982
49 B2 5 23< B+' <B4825.242 & +G9 ; 52 4 58+&9B 52
-' # ' S 6 8' 93 3 832B 49 4: J3 8& +8 :53 428
39G2B.9+28 JB 59+29AO 2&283 G 4 B2 JB 58 B:548 23
49B8O 'SS O 3:
-' (!' 2 ,
3' ! ' QJB *59*+ * :B* ; &/O 6' 2B ; 2
4&= 83: B2 5 39B2+2' $9' ' + ' :B ; 2 42 JB 59+28
-' (!' 2 , '23
%' -?OH>+,8 #' D7'O@/!@ M@<-@%"E' (' ' "'+"
#16-(%*-'" /O%!'"&&"' ' Q!O&-%"#"2" ,!-' "(%7'O/!&"!:
' 2 , ,7
3' ' QJB *< e /O O ' 2B ; 2 42 G:3 K
5 ?92' : ; 'E9+J B2 49 JB 32B:5O 42 +' + ; <:9B42
23 4& 93B28 <+ 5328 ' B9 38 ..B:2G 538
' ' :R' 7
%' Q ' H$*+"/%(' %-'; (' #!'
7'"2 4#$(%.' #2'-'"' #;"'-'"' "% ,!-' (-7/-$-"/%' ,!-'
2'-%' ,!-' #;"'-%' "% #"(2'-4%-*/' #2'-%!'"' 2*++"
4O% ":"+4&" #OH' 7"*7'O'O46"' 7#*7'O46-"' %#&"@
7'O46"' %;&#7'O46-"
3' # ' QJB *+4&/O 8' ' 25B2 42 +' K
; +2 428 + .=258O 4:53+28 28<G228 :B ; 2530 89B +28
G.:B.28 428 BGB28 23 ; G ; 2 89B+28 < 2BB28O 428 .B: +'
328 :9' <2+ .9+28 23 +228 25 :B ; 2 42 3 .=28 G+ 5*
2G43B28
' ?' '4G:) "%.' #"((-/"%
%' 'D7'O@&O@*!-#1E' 6' "'+" #-#O*
%-,!"' Q!-' '"(("+;&")' !/' (%8&"%
-' (!' B<W< :EO 83R+23O 23 8+ :.O :B ; 2
3' # $ 'hJB * *\&/O 6' IL O $9' 283 J9B4
< B +2 4288 5' 28.B <3 :5O B2<B48253 3 :5 JB <=2*
?92 4&952 ; .= 52' IL#' ' 2 JB <= ?92O +2 428K
8 5 42 +' J9B2O 42 &:B52 ; 253O 428 ; .= 528O 23.O
25 3 53 ?9& + 283 9A+ B2 428 8. 25.28 2A .328'
' $9' << B3 253)' &2.B 39B2' J528O . B 23GB28
JB <= ?928' 5 ' 3B:9E ' 422 ; :59 ; 2538 JB <= *
?928 4 58 .28 :9 ++28'HL ' ; 952 42 J4: ; 23B 2'
<2B 3 :58 JB <= ?928O .2+28 ?9' .:58 83253 G B2*
8:94B2 428 <B:G+G ; 28 < B +2 3B .4 428 J9B28
"O 2B ; 2 42 ; 52B +:J 2' 2 4 3 428 ; 52B 9A
4:53+' .:9<2 : B2 428 + J528 ; 3 53 428 . B 23GB28
4&2.B 39B2O IL 2 4 3 988' 42 .2B3 58 ; 54B 9A 882M
3254B28 <:9B 82BE B 42 .B R:5' O
' ?' 4O-4-:;5' #" '4#4(%.' #"((-/"' #2'-'"
3' ' Q ' QJB * *\&/O c' ' B3 49 4288 5
"% #" &O 4"-/%!'"' "((2!&4%"!'(' 7'"*("(' /" 6"'@
26O-"/% 4O(' &" +*!.+"/%' O#+-('(' 4O"'&O' 7'O46-"' #"
;' !/' ;"O!2*!4' 4&!(' 6O!%' ,!" 7'"/O%" #" ,!" 4O(O-%@
,!"' -!8? 'O ' " (
' ?' '4O$-: E D.".1&E*' 1O'% #!' #"((-/' D.*8'
7 ?< '*G
$! ' QJB *+*\2*; 5/O /' B +2
4288 5' # B 2A3258 :5' 9 O ; :58 29BO E:98 E2M
44<2 53 :B3 JB <= ?92 ; 253O " * ' " 7 '
3:93 .2 ?9' << B3 253 ;' .2332 ; + 4 2O ' & ; 3B*
* , * O 3
' + ' 2 " +, ' 23+2 89 A2
%' ' D7'O@$-@$E' c' ' "'+" #" +-/#'OK
&*7-"' !;(%O/2" #-%" O!((-' 4&*+; ;O7-/"' ,!-' "(% #!'
O';*/' "(%'-4"(' &!"' !/-#"+-#-!/' "(% #!' ,!O/%-'#"' #"
%"'"2!'"'(' 4&!(' %1*!' #%%#(' %;"(' -!#"' +"%&"' #!' 4*' "
$O;' -' /"&' 2'08*/(' #-%(' #" +-/#" #" 4&*+;' 4&*+; !!
-' (!' " ' 4288 52BO 4.B B2

% & O' ' D7'O@$-@%"; ' %"$%@<1E *!'
Q ' D7'O@$-@%-@[1E' 6' "'+" #" +-/#K
'O&*7-"' Q!-' 2*/%-"/% !/' 7'O/!&" 7'O46-%"' /" +O%-;'"' 7'OK
46T%"O("
$' ?' D7'O@$&@*+1E' ' "'+" #1O/%-@
,!-%#' *-/,*/' O!%'"+"/%' /*++#' (%8&"' O."2 #@
,!"&&" &"(' O/2-"/(' #2'-.O-"/%' "% #"(' 6%O6%"'"(' #"(' /#!-;'"
#" 2-"
' # $ ' O%' " , ' 4*-/,*/' ;' #2'-.O-"/' #!'
7'"2 4O-4*.' #" 84O%4(-.' #2'-"
3 ' D7'O@$*@&-@$E' ' ' 26-(%"
%'-O/7!&O-'" #*/% 4"% ' (" "/" (' ' "#O/(' ' ;2*&"(' "/"(' #1-@
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4*'"/%"' "&&"2*++" 2!'"(' #" ' '#"#1 ' %-&#O%"(
%*/4"'/&"(' 2!'+'"/%(' &" +O-/%"/'"&"(&"(' !-(*+
&O4&!(' "/'2'!:*/("(' 4"'$"2%-*//"O!'%"'
4*!(+O!%O/-"/(O/O2*!"(%*!4!'#O/(' 4"/2*'4("(
#"(4'*4*'%-*/('%"&&"(
%' ' #$ 4$'*/(%-%!"'!"' 2*++" &O
7!-&#"&O ,!-$O-%#O/(' ("/%"#"7!"/-,!"(#1
"/*7'O+O' "/' &O+!-,!" '"&-7-"!("(' O%$"'#"
'4'"/+O-"' &"(' &O' "+4&*%O/%&"(*"!O/-4"'"(
*+4&"% 4O'"&"
#O/(' (O4'"(2*+4*(%-*/#"(' "' ?' Q7!'&#O/(
%O4'*/-"' O2*++"'2-O&"(%*!&"(' *!:#O/(&"(
4'*4'-(' 78+/O(%-,!"'"O/2-"//"
#"' 1 #!'"(-&"#O/('&"('!$$-("(' 4O'2" ,!" 2"
(*/%"("#"(' 2*/,!!'(' !/" %*-(' 2*++"&"(
7!"/%"(' 2*++"' !"/%"2*++"&O !/-#" 2*!'(
&"&O&O/7!"&O%-/"' &"('&O%-/"(' #"(' 1!'*4"
.O' (1":"' "O!"(4'"(' #" 78+/O(%-,!"(' &O4O&4"#-
' ' $#9 ' O ' I' (' 'O.O-&&"'+"/%(' 78+/O("(' !"('
? ' 9 ' ' 8+/O(%-,!"' +O/-"'"

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G)

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G:588:+2 :9 .:;< 8 42 B:932' & <B'' 2J: B 530
G G 3 .+20 32B;2 42 ; B 52'' 283 4; 5 5 & . 44
; 2 +2 4 3 ; 8.9+ 5
-' # 0 M & 8' 2 G 3 .+2 8 28.9 2B80 8' \'
<2542 3+2 .:B8 +2 B2' J9 B42B0 :380 <' F 'LLA; 6 8'
' +288 2B25 3B239 3 +28 32BB280 $9& 52 <:B253 8:
B B +28 J92BB28 8 . 2A B253+:B = G 3 .+280 &:5.
<9 8 82 92 9 <B ; B .+280 &:82B253 . '@98 42
E +2B0 '< 'N'' N' LLA 6 8' 29B 2A.2+29.2 <2
B B 0 >2 82<9+.=B2 82B '+29B = G 3 .+20 9 '$
' N 9 :9EB20 5. 25 32;<+2 23 G G 3 .+2 428
B8'5.20 # 'A
-' !' B:E25'0 1 , ' 1 * '28<' 1'
*, '3+' 1 * '49+ 3' 1 *, , '42 '
1 ' = G 32B
0 'Q *G *3 50 3 5*3/0 8' ;'23 '
'+0U 2+9 0.1+2 ?9'= G +20 ?9' 38 42;29B2 A2 25
95'+29' 2 8: ; ; .8*5:98 H3:9.=28 428 ; 9A 42+'
:5JB 2 2342' & 93B .G2 B E J428 +29B8 = G 3 538
< 8828 9' 42 +&N<N2 ' A 9 ' 9 <B2K
; 28 GB9 3 42 .2 952832 .. 4253 L+' ;:B3 42 !
.= G 2210 3:9328 +28 E +28 42 >9422 9B253 4;928
428 B9 882 9A 42+ B ; 28 .:9+ 2B253 428 R29A 42 3:58
+29B8 = G 3 5380) 9, ' 28 4 29A ; 280
+28 4 29A0 42 & +R;<2 = G 3 538 ' 53 GB +4 ?92+
?92:8 42 29A +2J 3 ; 280 0 ' 4' >2
5& ' B 25 E:9+9 ; J 52B 89B +28 = G 3 538 428 ; :5
428 ?9' 3+3 253 2B2; 253 ; <:88 G+2 23 .= ; 2B ?920
'A '0 * ' 9 >:E20 4 58 8:5 # 8
3: B2 42 4:5 S0 B <<:B32 ?92 49 32;<8 42 +2K
; 253 0 : ; 2 52 <:88 4 3 ?92 ' ::' = G 3 538
?92+2 4 2B25.2 42 .28 32;<8 E2.' .29A 428 B @ 5
23 428 53:5 52 A , ' B R +28 H28 E:
39B28 <:B3253 988' 428 2; ; 28 B 5J 828 E2.'
+29B8 25 538 @ 4 8 .28 2 ; ; 28 9B253 4&=29B29828
= G 3 5328 42 !:8.:9 2+28 9 253 9@:9B4&=9'+'
= 52 428 !:8.:E328 ?92 5E 8:5' <<2 22 89B
+29B+8 34328 B B ; 42 283& " ! '' 829 8 +20 8229 0
'A '' A0 +'LL :23 ?92; 253' 28 = G 3 538 428
:B2380 +28 5+; 9A 8 9E J28' 28 = G 3 538 428
0 B0 +28 :82 9A' 28 = G 3 538 428 2 9A0 +28 <: 8
8:58' $92 <29E253 328 ; 8 23+29B8 B; 28 B J +280
28 = G 3 538 428 2 9A 44<:9 +28 593 +28
& '50 ' F' '82 4 3 42 .2+9'?9' <:88242 ;'4:
; 520 952 = G 3 :5 4 58 952 .:+:5 2' 5 = GK
3 53 42+' ! B3 5 ?920 2 +' 9 42+:9<2' LL '& 6'
5 32B; 28 42 <B 3 ?920 4: ; . +2 '3 G '8'
42;29B2 25 32+254B: 30 :9 2+2 283 25. :B2 = G 3 532
-' # 0 A 56 8' 5 3:<8 32A . 8 52 4: 3598 H59+/
28< BJ5 '8 428 G 3 5380 %
'Q *G *3 /0 ' ; 0 2B ; 2 42 G:3 5 ?92'
29 8<2. +2; 253 = G 34 < B 952 28<4.2 E2J43 +2'
28<+ 5328 :534 2B2538 G ; 3 38 0E:R'
' 5 & <<+ ?92 988' 9A 5 ; 9A 23 ' &=: ; ; 20
.:58 42B 8 82+:5 +28 4 E2B828 B .28' B *3*:5 ?92
+28 B .28 =9 ; 528 8:53 4 B J 28 4 58 +29B8 ; JB K
3:58< B 952 8:B32 4& 583 5.3 ; 2BE2 +29A ?9'+29B
3 <B288253 B &= G 3 3 +2 ; 29A <<B:<B 4 +29B8
<3 39428 5 3 E28 23 ' +29B8 G28: 58 939B8
'$ * '3' 0 <'
'J 6' 3' < 5 .0 < 88 ' 5293B20 1 , '
42 1 ' = G 32B
Q *G *3 *329B/06'35' 2+9'?9'= G 32
-' 'O 8' :+9B '<9B3 54B2 33 H29B253 42
3:93 .434 +' = G 3249B 42 + 83 ; 0 = 1 '
<' F' S 6 8' 3 4& 3 =25 25 2834 3 = G 3 329B
42 & 8+2 54B:80 :' & 4 58 ; :9 50 = 7
-' c (!' B:E25.' 1 ' 28<'
1 '3+' 1 '49+ 3' 1 '42
=:G 3 B20= G 32B'* 2 <B:E25J 1 '283 9 5:
; 5 3 0 23 E 253 4&=:G3343:B 1 '283 9 B2K
J ; 20 23 E 253 M 1 ?
' H *G *3 *8 :5 25 E2B80 42 . 5?
8R+ G28/0 8' .3 :5 4&= G 32B 95'+290 820:9B
?92 :5 R 3 = G 392+2; 253' &= G 3 3 :5 42 .2332
+ 8:5 283 ; +8 52' & .B 39B2 5:98 4 3 ?92 &=
G 3 3 :5 32BB283B2 G 882 &28<B 3 ?9' <2582 '<+9
8 29B8 .=:8280 88' 3B 320 .=' 3:'
:98 E2M 4:52 .= 5J4 4&= G 3 3 :5'@2 E:98 8:9
= 320 ?92+?92 < B3 ?9:'E:98 8:R2M0 93 53 42 G:5
=29B?92 42 3 +25380 ' ') 82<3'
"CC ' '5 82 4 3 428 5 ; 9A 2 3 JB2 3 8:5 = K
G 3 3 :5 4 58 +28 .:53B428 GB 3+ 5328 LL 0 &254B: 3
' &:5 42;29B20 4: ; . +20 ; 8:5' 2332 = G 3 3 :5
; 2 <+ 3' 2 5&23 253 <: 53 428 G BG B28 .=2B.= 53
42 ; 2 +29B8 .+ ; 380 428 = G 3 3 :58 <+98 .: ; ; :K
4280 428 8<2.3 .+28 <+98 25 EB 5380 42 <+98 JB 5428
B .=288280 # '. " A0 C' '+ 88 '42B
B GB2 +9' ?92+?928 .:8 ?928 <:9B GB3+2B +28 :9BB
J28 +28 = G 3 3 :58 9B253 B28<2234280 '3G' E 0 '
' 2B ; 2 42 @9B 8<B9425.2' B: 3 4&= G 3 3 :50 4B:3
42 42 ; 29B2B 4 58+' ; 8:5 4& 93B9 ' 8 58 < R2B 42
+:R2B' 2+9'?9' ' 95 4B:3 4&= G 3 3 :5 4 58 952

+0-(*/'4"!%8 #"+"!'""0."2 (0 $0+-&&"' '. "'
0'%'MY ' ' "'+" #!0/2-"//" &"7-(&0%-*/' 0;-%0%-*/'
"/'20(" #" (!'.-"' #'*-% ,!" &*/'2*/$"'0-%' 40"2*/@
%'0% #" +0'-07" 0 &0 $"++"' #0/(&" 20(*!"&&"
(!'.-.'0-% 0 (*/' +0'-' #!60;-%"" &0 +0-(*/'2*/9!@
70&" *!' !/" +0-(*/'4'*4'" 0!' +0'-'NNYi' "'+"
#!6-(%*-'" /0%!'"&&"' &-+0% ,!" ;0,!" ;%'" .-.0/%
4'#$;'"' /' /" #*-% 40(2*/$*/#'" !60;-%0%-*/'
0."2 !60;-%0%' ,!-' "(% !/' &-"!' (4"2-0&'%0/#-(,!"
!60;-%0%-*/' "(% !/' 2&-+0%' !/" '"7-*/'NN !60;-%0K
%-*/' #!!/' 0/-+0&' &"(&-"!:' ,!!-& -'",!"/%" 60;-K
%!"&&"+"/%' ' 1"%0;&-(("+"/% ,!!!/" 2*&*/-"
$*'+" #0/('!/' 408("-*-7/ ' "('0/20-(*/% "%0@
;&-' !/" /*!."&&" 60;-%0%-*/' 0!' 0/0#0'NN 0"":%"/K
(-*/'/'&--"/' 4*(("#" 40" !/' 40'%-2!&-"!' 0!:'2*&*/-"('
' 0.0-& 2"/% "/"7'"((!" (*/' 60;-%0%-*/'NNMd .*-"
60;-%0%-*/'0."2 !/"$"++"'0.*-"0."2 "&&" !/'2*+K
+"'2" 260'/"&'NN '(" #-% 0!((-#"(0/-+0!:' "!:
U*"!$(J ,!!"&&" U&0 4*!&"J 0 4'*#!-%(#0/(&'"%+4(#"
(*/'60;-%0%-*/'0."2&"+ &"' :>,/'
%' '4'AA
'O ('' "(%0;&-'"/% 2-%"# #!0;-%02-!/'
=1 '" '4'%"0'Q!" #".-"/#'*/%&*"(.*(+0-@
(*/(' *(;"&"(60;-%0%-*/(3 #0+' A4 & '4'AM'
-& #" S"'!(0&"+' (!"/' $*&'"/%' "% #".-/% S"'!(0&"+'
60;-%02-*/(#!"(%'0/7"(' A * 1 ' -'% NN:---' ('
'U&" 46#/-:J .*&" "% (!"/' .0 0 (*/' &" !'U&-"!J &0 *!
(!0;-%02-*/("(%' ' (*'4' - ' +@
46-*/ '40" ("(;*/"(40'*&"('"%'0-(% &"(6*+"(
#"((0!.07"('*26"(*!' -& 60;-%*-"/%' "% &"(0+"/0
'&0 2*++!/" 60;-%0%-*/' #" 2-% ' 1'4' M)'
'O ('' *(%"&&"" #*-% (0.*-" ,!" ,!-2*/,!"("(%
"/%'#"/' (0 +0-(*/'4*!' 6*(%"&&"" "% $0-%(*/'60;-%'
%0%-*/' #" &0 +0-(*/' (*/' 6*(%" '6' "' 9 $'
2" -"!' ' 'C' ' *' ':0 5
X' ' 0 ('Q!0/% &0 2-%" (0-/%"' $!'60;-%"" "/'
;*/"40-('A * 1'--'Y' 'S"'!(0&"+' /*/'"(%*-%
+-" 60;-%#" 0-/("(%*-% 0!(-'2*+" #"("%' 1' 'Y'
-& ,!-0 *"+0;-%*-"/%' " ,!-"&40-(2*/'.'"(*"/%
4'"%"0 ,!" 2"(%" 60;-%0%-*/' "(% &0 $*&' +0'-'
'/'Y B 'Q!" 9" 60;-%" "/'&0 +0-(!/'/*(%"
("7/!"%!'< &"(9!'< #" +0 .-"'=1'" '4'Y'
:/-!(' 60(2!/(#*-% .*-#-"" (*/'2*'07" &0 .*@
&"/%# 0!'260+#& #"&-% U4&0-(-'J5 20"0!%'"+"/%."@
%!(/!-'4*''*-%60;-%"' ' 9 '4'YA'
'*4 0-'"/' +0!.#(&"!'+0'26-#5 ## +1*/% 4"&("%
"+40'26-#5 S" %"(2&0-+' ,!-%"5 *&("(% ,!!'&*"
2*/("-& 0;-%"5 "' (0 #"%" 40(/" (!0,!-%" -/7*-(
(!"/2*+;""' ' B'NN:-.!' (' *++'" "% $"++"
/"60;-%"/% 40("/("+;&"%0/%("!&"+"/%"4*!'2"(%"
20!("+0-(0."2,!"(2"4"!" &"(26*("(,!' &"!"
(*/% 2*/."/0;&"(' > ' RY'NN:.!' ("(%"
2*+4&0-/%"08 $*'+#"% "% "(2'-4%"" 2!"!"2*!"#
U2*!'*!"#J *$% /!&4&+(-" /!0;-%"'
" '* ' ' 'DN:.-!' ('*!%"($*-(-& 8
"/"0 ,!-#-("/% ,!" "&4-/-2" /!60;-%*-% 4*-/%2&0/@
#"(%-/"+"/%' 0-/('4!;&-,!"+"/%0."2 (*/'$"'"
+*/' ? ' B
'$- ? '*."/2'"% "(407/' 1 '-%0&' 1'
'#!'&0%-/' 1 '$'#,!"/%0%-$ #" 1 '
0.*-'0.*-"('*!."/%'&'# (*!."/%'60;-%"'
%' 'DO@;-@%!@0@;&E' 6'Q!" 1*/'4"!%
60;-%!"'
$' 'DO@;-@%!@0@(-*/E' ' 2%-*/
#!60;-%!"'NN "'+" #" &-%!'7-" QH!0&#% #" 4'"%'"
60;-%!# #0/(!/" 40'*9(("
'O ('' (% /"2#((0-'" "% %"(!%-&" 0.*-"
#";*//"6"!'"2*/!0-((0+2"#" (02*+4&":-*/'0$$-/'
,!"'(-"&&"("(% +0!.0-(4'*/'8'4*/.*-"40"60;-%!0@
%-*/' "% $"',!"/%0%-*/' #"(";*("(2*/%0-'"('-2"&&"'
'9 ' ' 1 ')Y'#0/('
' 'DO@;-@%!@#!E' ' 'N ' "'+" #!6-(K
%*-"' /0%!'"&&"" '*/$*'+0%-*/' 2*/$-7!'0%-*/' #!!/'
.#7#%0 *!' #!!/'0/-+0&' *!(-7/'*'/'(#&&" (*"%
#" '"(4-'0%-*/' (!*4#"#0/('&0 26"/'-&&"5 /*!(0.*-'0%-*/' (0.-"
(*/(' '%' "//" 60;-%"' &"(2*/%'&0 26"/'-&&"' '!(-*/
7#%0!:' "" /"/" 60;-%"&"("2*/%0-/'-+0!(*" #!0" &0 +0/-#"'
("!&+"/%"/%' 0/-/0!:' (!'-&("(/"+%"/"/0-//@
-("0!:' "$$'080/%(' +-&&"2' "0!(-&%'"/%-(K' 0*!
+!'('U&0%"'"#" ?*/%"&&#*"$" %*(60;-%"&&"+-(&"%"*/'(
/;;'(" ' =, '---' 602!/'U.#7#%0&J 0'("(4"/K
260/%(0(0-(*/"%(0 4&02" ;0-%"&"(&-"!:'260!#('
!'("4&0-%(!'("(0 7&02" ' '*%('.-'
/ -7'&0' 40-:' 60;-%"*'"(9*!' +8'/" ,!!60;-%"
&0 2*/(%-%!-%"/%#"%"2%!' 10(4"2%#/#'0&#"2*'4(' "%%"60K
;-%!#" #!' 2*'4(+"/!'"7'#&" /*-"%"2&"!'
0 , * - NN 0?' &" &0/707" 7#/#'0&'60;-%!#
#!'2*'4(' 0-" ,!-'#(!&%" 7#/#'0&"'+" /% #!' +0-/@
%-"/' &"&0 ##+0'26" #"(0%%-%!#" "2*'/0-%"
,!"&,!!/' 60;-%!#" #!'2*'4('NN ' 0":%"/(-*/
#-(4-%%-%"'02,!-("!/"(* 40" &0 '#4#%"0/0"+"2*/0@
%"(''"("(/ *+ !/% &0 4#26"#"!"+# #"(+/
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&*-&"!'0-&&"!'/ -/;&" 0 +% /2"' ,!"&&0 !'+&'
4#26"%!'/(%"'"" -%" ,!-!%" 2"!%0'"% &0
2*/$-"'%"0!:' 0*!%"'"+0%"*'"%"2*'/"'"%@
.."&"4#' /2%"2 .0'2"#*0%"&"&*4"2"
2*+4"'"%"2(0(0!:' 0+-0:' 0/*%%"(' '
!' /+-%"0!:"2
D2"%0-/(' "(";*("(".0/2"2&0-0"(" 2*'4*'"+!'"(*"!"&0
'&"-/% ' '

4&0/%"(' C ' ' ' ' ' 1 "
7*!%%"'"#!"0!' #" 4&!-" *!#" .-/0-7'" *!' #!0!%'"(
&-,!"!'(' '"+4&-"(#" 4"%-%(4*-((*/(' *!' #0 4"%-%(
("4"/%(,!" 1*/' !0!'0-%0+0-((*!47*/#(#!8 60K
;-%" ' A 'Y' 'NN -7 "/!"(% 4*-%
(!" ("(;*"#(U#!' "'+"(("J ,!!60;-%"" &0 '-26"((("
'& '"' 'Q!"&0 "%" 60;-%" 0!:4*'%"(#!'
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'-"<'#0/(+"("%"*! ;&"(Q!"&0 40-:60;-%-0-%
0!'4-"# #" ("0!%"("& ' ' 2*/2"2"0-%
U#0/(10/%"-,!"#!!'60!%"+-&0%-"+'"'8'4'*4"#0!*!!#2"/% 60;-%"0-%&"
+0-/(2"-&+"/%" ("+-0/2"0-%&"60;-%"0-%0.0/%"0!%'"(
%8'0!/2"C>,/'%.4' &-'NYi' /"++"/%"#"
##.*%*/2"&"(#-%"#" -+4'*/-+0&"-/%0 *'"#"$" ,!0
-"!$0-%-'"1+"(0-!"#!2-*/("%"(!*/%"-#!"4
.*!('#'0!(!'&"",7'---'M'
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& 0-/@ 4"-9!,!"&0'#!(&"(0!%'"('40!%('"*
40&0."'#" "/%2"!2*'4&-"('#&"/"!"@
2"%$$"% = ' ' ' "&'
=' 0-/@ 4"-"".-"/%60;-%"#0/#*/("' +"' .
4"!$"0+"/%"/&-"0!:"/ -%0-+0-/(!%"#$"&*!%'
/*!(%0-%("/%0."2&"(0."2 ,!"/-&&"(60;-%"' 40'+-
#-%#"1-+4'"(('#!(&'"'-%" 4&#/"!/" 4&#' "!%/ 0!:
++0&"'"+"(0-&%*"$" "2"0-(" &0 &-'60;-%"' "
+*-0+*"&"$0-(" 2""&0-("+0-2*/.0-/"0!
#"%%&'" "+-("/"("'"('#/"%0/+%#-(('&0""'
0 ;-%"260'"(""2"/%"260""2"+0-/'
"&0+"%!&"+"+0-2"/2"0!2"*/%'"0.*-(*/4&0(0/%"0/
"&&" 0"'"0*&*/%0*#0/'"2&&#0(%"4*!'2"("0!'&"
&"("0!:("+0'(0;&&-(2*++-+!'0#0&"&"+"%%&"
2"%"'"2*'0#%"%"'+-/'"("('&" '-2"#$"'"&"'0-"
'+"*(#"+"/%2"%%"-0/-%--%"+#-("/2"
2"'"2*++0/%"(#"&0+0-(*/%"0!%"(
'Q!0 *'"#"0"&"+"(%"(0--"+"/%"#0"
!' +0-(/"#"&0/(+0 ($*/%"2"&!-"
0 &"&0#0/(/"+0-(*/2"&"0(+*/#
0!'2*!'0;%-"/%"("*"("%"/"'
"/ *+&-"!"&"("%*'%"&""2"/%"(
4'*4'"(+0-"%0-(0"!'"2*+4&"%
(*-%"'2*'4("%"2"'"+"(#-("*!'
#0/(&0.*!"+0-(*/0("("%'*'
0/'4*'+0/"/%4*!'2*+4*("&"+0-(*/
("'.-"4*!'!/!(0#" 4'"("/%"
#"!:+0-("+0-(*/("'(*/%
0+0/%"'"+%-("+0"'-"(
2*/(%0-'!"#"2"((0-'"4"/#0/%'&0
4'-/2-40&"4*!'("(+0-(*/(
"(%'"&0%-."+"/%0!:"&*-7/"(
"%&0%%"/%-*/""/%'"2"/%'"2""
"%&"#"2*'$"%0"("'0"/"+#

[illegible]

8.B 38 42 : 2B3 <:B3253 ' 23 5:5 '$ * 5
]' 583595253 42 85<<=.2 E2.'+2?92+2 G:9BB2 9
3B 5.=2+ ' 3 32 28 = .=28 23 +28 .B: A'8:53 + 8828
49 3B < 80 ' # ' 2 ' 0 8 = 58 93 .=_E2 \
<2 52 95 8 3 + 82B ; 253 $52+ ' = .=2 +2 B <<20 23
8 '3\32 2A< B 5320 9A < 248 42 8:5 4<:982 2<2B492
23 ; :9B 5320 28 ; B.=28 42 & 932+ 3: ; =2 23 B:9+2
25 9 ; 530 ' 3 ' E' 9B +28 < B38 B E 5
' <B: ; 25 53 8 58 .=: A0 28 G:9BB2 9A 3 J928
' = .=2 54 4B2532 2 +29B 8 5J .:5 :549 8 58
.2882 43 3 9 ; 5320 $ ' 9 ' E' L J'
' = .=2 43 3 898<25492 89B 3:9328 +28 3280
, #@ ' ' AE50 ' '0 2B ; 2 4& 53 ?9 3\
28 = .=28 ?92 +28 + .329B8 <:B3 253 E2.' +28 8
.2 9A 42E 53 .2B3 58 ; J 83B 32 B2 ; 58 R+
; B.=2 25 <9G+ .' 8 58 8.2 9A 23 8 58 = .=280
' # ' E0 LL# .=2 .:589+ B20 = .=2 25
3:9B42 42 8.2 9A 23 42 E2BJ28 LL 583B9 ; 253 2 ;
<+:R4 <:9B 3 2B +28 5 ; 9A .=2 2B38 25 8 .B .2
:9B +28 4328 428 4 29A + ' = .=2 <B2< B420 9
A ? ' E0 N' LL%' # .=2 4& B ; 280 8:B38 4& B ; 2 :
258 E20 32 ?92+?92 : 8 .: ; ; 2 952 = .=20 =:B ; 8
?9&2+2 ' +2 ; 5.=2 <+98 +:5J0 23 +2 3B25.= 53 <+98
+ BJ20 <+98 :B3 23 <+98 24B2 4& 93+ 2 8 2+2 ' 95
JB 54 ; 5.=2 25 ; 5 =B2 42 = ; <2 4? <2B39 8 520
E2.' 95 JB 54 2B 9 G:93 25 :B =2 042 3B 5.=23
42 .:B4:55 2B0 ; 8 G 25 <+98 +:5J 28 JB25 4 2B8
' .=2E + 42 + ' ; 8:5 49 B:30 4 58 & 5.2552 ; :
5 B.= 20 E 253 95 . ; 232BB20 952 = .=2 4& B ; 280
95 98 + 23 952 J G2. 4B2 B2 ; <+ 2 42 JB25 428 2
B: ' 2 5 82 42 254 3 25 =: ; ; 2 42 .:29B0 E2.' 952
= .=2 4& B ; 280 ' + ' G 3 +2 42 : 3 2B80 .5 : 8
' A' ' 30 7 LL# .=2 4& B ; 20 5: ; ' 4&952
28<4:2 42 = .=2 25 98 J2 4 58 +28 .: ; G 38 4& G:B
4 J2 89B ; 2B' LLN' 2B ; 2 42 3=4 3B2 842 = .=20
4 582 :B32 ; 253 . B 234B 8220 28<422 42 <RBB= ?92
; :42 ; 80 A2.9342 < B 3 ; 2 3B:9<2 42 8:+4 380 42
G .. = 53280 23.' LLC' 2B ; 2 42 G+ 8:5 ' # .=2 4
5: 820 = .=2 4& BJ253 9 ; 5.=20 4&:B0 BB:54 :9
<+:R4 F0 2B ; 2 4& B4: 8 4B2 # .=2 4&:9EB J20 28
<422 42 ; B32 9 <:9B GB 82B +28 G+: .80 @f 2B ; 2
4& ; <B ; 2B 2 ; <B ; 2B 25 = .=20 82 4 3 ?9 54 + R
' 428 5:328 ?9&:5 .: ; ; 25.2 ' + ' ; BJ2 W3 ?9 0
43 53 3B:< JB 54280 8:53 ; <B ; 228 9 G 8 42 +
< J2 8:98 +2 32A32 ?9&:5 B23B 5.=2 ' <B:<:B3 :5 82
4 3 988 4& 5 + EB2 ; <B ; 4 ' 449A .:+:55280 4:53
&9520 <+98 G:54 5320 :..9<2 3?932 + ' + BJ29B 42
+ ' < J2 9*4288:98 42 .2+2 ?9 ' 434 <+98 .:9B38
58 4 3 < B.2 ?92 .2332 4 8<:8 3 :5 B <<2+2 +
:B ; 2 42 + ' = .=2 @L ' 2B ; 2 4& B<25329B 422
42 32BB2 25 = .=20 < 422 42 32BB2 ?9 ' <4543B2 25
:B ; 2 42 = .=2 4 58 952 93B2 < 422 2332 < 422
42 32BB2 3 = .=2 89B 32+2 93B20 2+2 8&25.+ E2
4 58 32+2 93B2 LL ' 2B ; 2 42 ; 52J20 :9< 42
= .=20 82 4 3 4095 .B29A 8394 ' + '@:5.3 :9 49 . 9
23 49 J BB:3 LL F6 2B ; 242 G:3 5 ?92 # .=2B:R +20
& 8<=:44+2 G+ 5: 23 & 8<=:44+2 B ; 29S 4 3 988
G 3:5 B:R + LL B:E2BG8 +2B 9 G: 8 8 58 = .=20
' 2 < 8 82 ; 95 B 42 .2 ?? 283 542288 B2
O I' (-& , ! -*%' 0< " / *% 7"-7 / *" 40'@
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.-&O-/'#"' $&O"& 2!"-:'NN:'.I'(*'%O/% !/" 7'0/#"
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* ' "0'# &" $'O440 (!"&"("(40!&"(!'(!"&"(
; '0(! /' ("!& 4"%-% 2*!4 #! 4&O% #!!/" 4"%-%" 6026"
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&"(6026"(0!'("-7/"!"#! (4-'-' 4*!" 26*-("&"4"K
+-"'2*+ + "1"(%*-%&O 2*!(%! +"5 "%$!"/% -2"&&"(
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0-26" ' +0'%"&' " 0 ' '
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$*'%"(, !" */' /" &"(4!-(("(2*!4"#!/". *!&7"
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' ' B:E25J " ' 4 6 . 3 + ' *
28< J5 * ' <:B39J ' ' 3 + ' ** '
* ' + R' ' 429A :B ; 28 4 58 +28 + 5J928
B: ; 528 952 Q 5.' B 5J 7 ' <B:E25' 4 ' 3 +0
* 5 E 253 49 + 3 * ' 4:+: B2 & 93B2 : * '
" ' ' * ' ' ** ' 77 5 E 2530 4& *
<B=8 2M0 42 & +2 ; ' *) ' 583B9 ; 253 ' 3B 90
.=2B0 5.' = ' +2 ; ' ** ' .B:.=230 5J+:*8 A
** ' 5J+ *) ' = .=2B 2M <2582 988 ' ?92
2&283 49 B 5J 8 ?92 +28 93B28 + 5J928 B: ; 528

!%"+4'!/%#&"!'(#"/+-/0%-*/(#" &O("2*/#"
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' ' D0@26E' ' ' *+' #" &O 6!-%-"+"
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0'26-4"& , !-' , !*-, !" 6026" ' +*/%!"!:' "% 4"!'0'K
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&"(" 4"'+-""(4"*(O%"!"(J #0/((O #-2%-*/' +*-/(
-/2*6""/ ' +*-/(6026"' 4 ' 9 ' '
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+"/%4*!" +"%%'" 1"2*!2" #" 26 /" "/'$'07+"/%(
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;&O */' -"/(#" 40/026"(' #-."'(/*"!#("%&O2"%(
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2*++" 260-' ' 4 %" NN 026"' "/4-6"" ('2*!4" !/'
6*/!/0 40" +*'2"0!:' (*'%"NN (!44&-2"' e'2*/@
#0+6"/% &"(#"!:' -/$*'%!/"(' %" #"$-"("/4-"K
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'-" 4*!" #"(40"-2-#"(' ' &, ' " "NN 0"
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"/' +*'2"0!:'&" $'0944"" #" 4&!(-"!'(2*!4(#!!/"
0'+"%'0/260/%" NN -7 ' &"(" $"'0-%6026"" "/'4-"2"(
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6026"'("#-%#"2"&!-, !-'"(%#-(4*(" %*!%(*!$$'-"
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4'MA' /' #-% "/' !'("(0/0&*7!">S" +!8 $"'0-(
6026"'NN "$0-'" 6026"' "/'4- 2"(" "(%$6-"6026"
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"-(,!"/260/% "%*"%!#*" , "2*!4" 2' ' , !-' +!-/@
(4-'"" /%% %' 2*!4 %0/% #" < & " %#!-/2&-/0%-*/@
4*!"&" #"*8+% , !"9" +"("0-($0-%6026" 4*!"&!-'
' > / 2 7 26' M LL d *!4" #" 2*!4"
+0&0#"*-%" +"/%' "% 2!8" ; //260/% /" (0&% 40(
(*/' +"%-" ' -& 6026"&"(.-0/#"(NN/YI 0" ":%"/(-(*/'
%' !-" "0.07" #" /-"' "07" 0 ; 026 ' &"(' @
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+*-(*/(#"!"(2*/!'(@!/'#"/*(-&&07"(" ' $
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20.0&"--" (1"(%$0-% 6026"' 4&!% % , !" #" ' '2!&"
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2'08*/'0."2&"; !'-/'NN 0-"'0."2 !/' 4"%-%4-/2"0!
%#! +*'#0/%' #"(&-7/"((!"&O 40"%-" #!!/' *+"@
#"/% &O, ! "&&"*//"" #" %'0-% !/" 4"-2"" #" '+"+"
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D Bd "'+"#" [4-#0-""' 026"&O '*/"8 $0-"#"
& 7 "(-/2-(-*/(4*!"8 4*&- &" #-0+0/%"NN Ad "'+"
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#-$$-2-&"+"/%'
' 0 I' (' !-(&"(607- (; -"/' +"/!(' "&
2!-(- ("/' 6!-&&" #!*&-." ' ' 9 ' $d) '
!'0.-" "$0-% #" /"!$!/' ; 02-/' #!0'7"/% #*'
; 026 ' (!" &" ; *'# #" ." ? 0'-0'
, 7 ' 4 YY ' /' 4"%-% 7*; "&"% #!*' 6026- ' 0
2*!'*//"(%*!% 0!%*!" + ' 1' NN:.-I'(' 4-7"*
(*!;#0-/' (!"/.*&"' 60(260/% U$"/#0/% 0-'J "/' -/@
2'*80; &" 60(%-."% ' 2*++"' .*!((70."< , !!-&' /1"(%
.*& , !" #" 4-7"*/' , !0/#" -&0 *"!$(*!4"%-%<
0 ' Y ' 0.*-%&"((; -0("% &"(2!-(("(%*!%
; 0" ; "(#" 2*!4($ ' >, ' 1-& &"!"
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' # $ ' * ' 4-20'# "% 0-/0!% +,
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' D60@2; "@' E' ' "%-%"2*7/ "
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' D60@26 @$E' ' ' 99 %d' "%-%"-026"'
d S*&- 404-&&*/'#"/!-%#! !'*4"
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o 1 (' 026"%%" U4"%-%"6026"J' ' !
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& :-. I(S"60/'#! ;". - "4*%-"'#!"(%0-/7
"%6026"! "/'*'$0.'"'-"' # #' , 7' "' YYA
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9@ ' D60@26-5 1('/" ("&-" 40(>!/' 60@2&%-'04'V
4 %-((0/%5 D [-$$-"%' 2 ' 4' -" ' -[-% 4*!"(*/'
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.-0/#" *!' #!' 4*-((*/' 6026 ' & +0/7"0"# "! :'4"@
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9 ' ' R' S" /" 4!-(+0/7" "#!/' 6026-(2*+4&" (
#" #-/#"'" #" &-" ' ' " "%#" &O4-/' , !!*/' ."!% +" $0-""
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2; /"(!"&O, !"&&"*/'6026*"&"(.-0/#"(NN d '0/#
2*!%"0!'4*!" 6026" ' 99 ' (" #-% , !"&, !"$*-(4*!"
602; "@40-&&"'UNYd "'+" #" 260/#"&-"'' -"!' ' 1*/'
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%-" "% #!' %*/*"/' ' , !-' ("%[2*!4" &" (&O%%"(
&"(2"'2&"(' NN !%-&#" 2*!4"!'"4*!" 2*!4" &O%%"
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' D60@26!@'1E' ' ' NN$d "'+" #" #" #"((-/
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+"/%&"(#"+-@%-/%-%"("%&"(*+; '"(0-'" #"(; 0@
26!"("((-/"40" 6026!"(NN 0" ":%"/(-(*/'
$*/##"(*'!4&!+07" U#" 10&;0%'%0/(#"/*!2 ; &0/2
7'-(; -!/'(!'"" +0/%0"!0.O%0-%4"%-%"(6026!'"(
+!&%-4&-"!"%%"(-(2"(' +*-(*/(#*!' 1"(0!4"@
2 ' %' : .-' 4' Y ' ' 0-%((!" &" 2!-.'"' &"
$"'' %%2 0.06% #"&"(#*'"'"' *!' #" &"(0'7"/%"
S NYd ' 0-%(%0-%(! &O' "*!' #!' &O4-#0-%"@NS d "'+"
#" ; &O(*/' 0-%(*!' 4*-/"#*% *" "("%#0/(&O
7'0.!"' 4*!' +0/' , !"&O#-$$"'"/2" #"(2*!' ' (*!'
+0!:' %"#" % "0!: ' 0 6026! "/' 40& *!' #"
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' , ' -'

G) A

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9 : 3(<: 988: 3' 23 = +23: 3' <: 9B' ; 233B2' .= 295' 25'
8:5' B 5J' 23' :B4:55 5.2(# ' # ' B1 '
' 2598' 5&283' < 8 8' G2+2' 3: 932' 592' 23 E E2' 23
G +23 532' .: 5952' 2+2' 283' .R' .=2M BJ +20 '
; (Y B
-' (! ' 3' ' B'?5 53 3 ' 4 '
8:9 +2B
(' QG *+29B(+24*M&/(W' ' 23'
#: ; ; 28' :9' 2 ; ; 28' ?9 (; :R255 53 952' G+2' B+*'
3B G93 :5(8& 332+253' ' + ' .:B42' 428' 5 E B28' :9' 428'
G 32 9A' ?9&:5' E293' B8' 253B2B' 4 58' +2' <:B3(.= 5K
J2B' 42' <+ .2' :9' B2 ; :532B' 95' +29E2
' #&$ ' ' 'D
' # ' # ' 4 ; 253' ?< ' 253B2' 25' .: ; K
<: 8 3 : 5' 4 58' .2B3 58' ; :38' 8. 253 ?928(8 J5 2'
82+(; 2B(23 283 +2' JB2:' %S^(_S"R(+ 3' ' QE:R' @'
28' 429A' :552B' 4S3 ' 23' 4S: ' 8:53' 98 3428' 4 58'
+2' JB2.' 25' ?' ; <: 8 3 :5(E2:' 22332' 4 83 5.3 :5' ?92'
S ' 82' B <<:B32' S' &2 9' 42' ; 2B(4' &2 9' 8 +42(23
B ' 9' 82+
3' # #' ' Q *+ * \ 2*+*4 : *5&/(' ' " '
2B ; 2' 42' M: :+: J 2' ; +2' 4&:+82 9M' .: ; <B25 53
+28' G B:542+28' 42' ; 2B(
' O S^("S"R(; 2B(23' A2S X(= B:542+2'
j' # # ' Q *+ * \ 4*+: *5& / (' ' "
2B ; 2' 42' M: :+: J 2' ; +2' 42' B2<3 +28' .=4+: 5 258'
.: ; <B25 53 +28' 3: B3928' ; B 528
- ' 4 (! ' ' S R("S"R(; 2B(23' A(S ; E5(3: B392
(j' # $ (! ' Q *+ * \ :*+ 5*G&/(8' ' " '
2B ; 2' 42' M: :+: J 2' ; +2' 4&: 82 9M ?9' :53' D= *'
G 3942' 42' < :5J2B' 4 58+' ; 2B
' U ' ? (N' %(%N' ; 2B(23' A:SE<4X(< :5J2B'
3' # ' Q *+ * \ :*B *8&/(' ' " ' 2B ; 2
48' M: :+: J 2' ; +2' 4&: 82 9A' .: ; <B25 53 +28' .: B*'
82' 9A' 42' ; 2B(.&28G"3*4 B2' +28' <2 . 58' 23' +28' B2*'
J 328
- ' (! ' D S R("S"R(; 2B(23' A"<: h(2: BG2 9
' ? #@* ' Q *+ *G* &/(' ' 2B ; 2' 4(: ; 3=: +: *'
J 2' 25B2' 42' B < 22 @ 4 58' +2?92+' :5' 4 83 5J92'
= + 232' +G 2 +2(?9' 283' = + 232' :88 =3J2' 42' .2BK
3 58' 9329B8(23 <: 9B' 4& 93B28' & J 2' <RJ BJ92
- ' (! ' 6 S :28 "R(42' S U "S"VJ 23' :3+FB"R(
J+2
,' # # $ ' Q * *29*3 * \&/(' ' 2B ; 2' 4 *'
4 .3 ?92' $; ' 2: 522 ; 2' <42=2' L' #' ; ' ' 28'
+ 293 ?928(5: ; ' 4&95' <: 2 ; 2' Q&' <<325' 83(B' + '
<4.G2' Q' #' ' &= + 293 ?92(+6 B3' 42' + ' <4.=2
- ' (! ' % S38d ; A"R(42' 43S32G(< .=29B
' # ! ' Q *+ * ; &/(' ; ' 2B ; 2' 42' G:3 5 ?92'
: ; ' 9+J B2' 23' 8<42@ ?92' 42' BB: .G2' G + ; 2'
Q.G45 :<: 4 :428/
- ' (! ' 3' , ' :33' , ' 433' JB2.' 4 3B*'
Q P :9' S H :P
b' # ! (# ! $+ (R' 5*'
! (# 3 ! +$9 (?9' +253' ; 29S@ +2' <B4 A2'
' "3 53 <: 9B + ' ; 2B(23 2' @5' A2' ' <: 9B +2' 823'
3' # ' Q= *+ 5/(' ' " ' 2B ; 2' 42' ; B 52'
>238' 23' = + 58(E: R' '
(! ' :+2B'
3' # ' ' *+ * *3 *4&/(6' ' 25B2' 42' .: *'
?9 +28(:3 &:5' 4 83 5J92' &G :3 42' 39G2B.9+42(
4 32' G8: +9 ; 253 = + : 42(23' <<2+42' 988' :B2 +2'
42' ; 2B' 23' :B2 +2' 42' (4598(E34J B2 ; 253' 2B ; 23' :9'
:B ; 2 9
(! ' # S R("S"R(; 2B(23' :%R(# "R(:B2 +2'
3' # + ' Q * *<+&/ ' " , ' 25B2' 4& 582.328'
.: +4: <32B28(; +2' 428' 52.3: <: 428(
6*' (! ' 6 S R("S"R(; 2B(23' ' 5 E J52B'
3' # 3+ + ' Q *+ *<32*5&+(' ' " , ' ; +2'
4(: 82 9A' 42' ; 2B
3-' (! '] S R("S"R(; 2B(23' W ; E"R(?5' E:+2'
3# + 5(Q *+ 68N*B 5/(8' ' 2B ; 2' 42'
M: :+: J 2' 9B 25' V<' E 3' 4 58+ ' ; 2B
- ' (! '] S R(3: "8(; 2B(23 F '
S(' Q *#*39*24(24*M6/(?
2B ; 2' 42' ; 42. 92' :9E2B3 4&952' 4: <.2' E <29B'
.: ; < B42' ' B= +2 52' ?9' 82' .:542582' 2 9' 5 +*'
392982' @L' G +29 ' G + 392982(.G +29B' .. : ; < J5 2'
4&952' 4: 9.2' ; : 329B
- ' # ' S 6 8' 2+2' .B ; :5 2' <293' 283B2' ; :42*'
B42' < B' + ' B <29B' G + 392982' 23' 4: 9.2(+ ?92332' 283
; 28+42' < B ; R' + ' 8929B(< (+(N' G +29B' 4: 9.2(
G + 392982' 23' 89 E2' ' B 33: 9. =2 ; 253(5(AA(C(
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' Q= * *@/(' X ' B: 3' +2E4' 4 58' +28
= +28' 23' 4 58' +28' :B28' 89B' +28' ; B.= 54 828' ?9&:5'
R' 23' +2' + ' 2552' 49' 4B: 3' 42' ; 5 J2(= + J2(+ 5*'
J92R J2' 23' <+ .2' 49' 5@ B.=4' 42' 2G:@' 25' B 2(
BB+3' 4W' .:582 3 % ' +:' EB' CF
- ' # (; 6 8' $9 .:5?928' 283' 3: 882B 58' ' K
5 8 ' ' 4:3 .G 8.95' 5(42' .G 8.95' 283' +(.5?
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JB: 8828' J: 93328' 4&2 D9' 3 53< B2P J2B 3 :5(.: ; < *'
B 28' 428' 2B8' 42' = +2G B42' ' .03 : ; G2B 428' = +2*'
G B428(82' 4 3' ?9' 54' 95' JB: 8 59' J2' BB E2' 3: 93' <+2 5'
4&2 9' ' 5' 4 3' 4&952' ; 9E 82' B ; 2' ' 28(; :38'
B ; 253 .: ; ; 2' = +2G B42' 23' ; 8 B .: B42' LL 6 # +K
+2G B42' 42' 9 882(5 : ; ' E9+J B2' 8:98' +2?92' +28'
; B2G 548' 428 J5253 ?92+?928' 28< .28' 42' B: 832+*
+ B28(23(< B3 .9+ B2 ; 253(+2' " ' " *
' # ' S 68' /7 ; 0(%*/' 044"&&' ' !/" 60 ";0'#"
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-' (! ' :9BJ' , 1 ' 28<' 23' <: B3(+: *'
1 ' 3 + ' 1 ' 1 ' < R8 42' :B2(
, 1 ' :98' +2' 3 B2' 42' & B G2 ' 1 ' .: ; K
<: 82' 42' +2(23' 1 ' <: 532' 42' + 5.2' ! 8+'
:B ; 2' 49' ; :3 8& .. :B42' ; 29A' E2.' &23R ; :+: J 2'
J2B ; 5 ?92' ' 5. 25' +2 ; 54(' :9'
1 ' 8:B32' 42' = .=2(42' ' ; 5. =2(23' "
:9' 1 ' G .=2' ' 1 ' 4 58' B +2 ; 54' ; :*
42 ; 2( )1 ' 4 58' +2' 89 4: 8(1 ' 4 58'
5J+ 8(:53' 3' <B 8' 9A' + 5J928' B: ; 528
' Q= * 2*G .*4+ P' B' 52' 82' + 2' @ K
; 8P 9' <+9B 2+(&8' 82' + 2' P 428' = *+2*G B*4+ *M' 25'
.3 : 5/(' ' LL ' B42' ' < 24' ?9' <: B3' 3' ' = +K
+2G B42' 0 ' 8&283' 4 3' 42' =: ; : 2 ?9 (' 42' 42'
+2E 2B8' 23' 42' B: 9+2 9A(3 BB E2B' +28' +: 9B428'
; 8828' 89B' + ' .= 53 2B' ! ' ' ' '
& * *
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3 ' ' . ' " ' ' 3 ' 4 ' $ 0' #0/(' !'
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, !"&, !"(60&&"; 0'#-"'(' ' ' ' A
- ' (! ' ' 1
' Q= *+2*GB2*4 /(' ' 23' ' 2' 4 3
4&952' <2B8: 552' JB 542' 23' ; ' G 3 2' &283' 952'
JB 542' G +2GB24' ' &283' 9 ' JB 54' G + 2GB24 ' LL 5'
2B E 3 988' G +GB24 ' 53B2' 93B28(95' JB 54' = +*
GB24 (: ; ; ' ! B\(! E: B8 :9' ! E: 8(28' 42538'
JB 5. (@9B (JB: 54 (3' 4 3' B J2' .253B2' 4& E 9A(
E: ' O ' : > , / ' 3' (< ' NN
-' ' S 68' 52' = +2 924 ' H952' JB 542' 2 ; ; 2'
; ' 32(- - ' , '
-' (! ' 2' 82 ; G+2' 3B2(.: ; ; 2' & ' 4 3' ! 5 J2(
952' +32B 3 :5' <+ 8 532' 42' 1
3' # ' Q= *B 2/(8' ' 2B ; 2' 42' G:3 K
5 ?92' 25B2' 42' <+ 5328' 42' G3' ; +2' 428' 8.B: 9+ *'
B+ 28
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' # ' QG *+ P &B' 52' 82' + 2' @ ; 8P 5' < 9*'
B 2+(8 82' + 2' +28' = *+ *M 9A' G +28/(8' ' LH ' 2K
+9' ?9' J B42' +28' ; B.= 54 828' 4 <: 8 28' 4 58' 952'
G +2' ' ' ! B.G 54' ?9' 3 +2 9A' = +28
- ' # (A5 6 8' 2' ' 82' .: ; <: B3: 3' ?9& ' 2983'
283 + E9 3(?9& +52' 983' .258' :9' +: 9 J2(6+' = +2B'
<: BB: 253 +28' 2= : 828' 5' .: ; <: B3229B' ; 23B2' ' 283 +(
= / ' ' 88
' (! ' '
' Q= * P j ' 52' 82' G2' @ ; 8P 9'
<+9B 2+(8' 82' + 2' ' 428' = * *M < 8/(' ; '
' ' 95 :5' 42' G9 88: 58' :B3' < 8' #8' 52' <: 9B*'
B:53 ; 9+2B +29B8' < ?928' < B ; ' 428' = 9+2B8' 23' 428'
B2528' 4& BGB28(! ' 9 * ' & ' + E' 5(4 58'
.< ' 28' = + 2B8(2&283* # B2' +28' + 29A' 5. 25*'
52 ; 253 4 B 2= 8' 23' ?9' 52' 8: 53' .: 5E2B38' ?92' 42'
<23 328' GB: 988 +28(' 8' 3' E 5(< ' 1 ' >&
E9' +2' 9+: 8' 42E259' 8 5 329B' 2 ; G BB 882B' 8 ' 3: J2'
B: ; 2' 4 58' +28' = + 2B8' 42' 828' G: 8(- '
; ' ?92' :5' 3254' <2B<254 29+ B2 ; 253' <: 9B' ?92'
+2' J G 2B' 4: 552' 424 58
- ' # ' S 6 8' ' . 982' 428' G: 8(= + 2B8' 23'
JB: 8828' = : 988 2B28' ?9' 5' :98 .: 9EB: 253 9' 8: B3 B' 42'
+ ' E +2(: A(E(2
- ' (! ' :B ; 54(' < . B4(' 5.'
B 5.(' GB 5 : =2(BGB2' 25' G9 88: 5' QA R6 8' '
; : 3+ ' 42' 3: 98' +28' 95: 8(8 92G: 8(= +: 8(<B2M 23'
B253280 - - ' , 5' 2 ; :3' ' 3' B 33 .G '
9' G 8+ 3 5' , ' :9' ' GB 52G2' ' , ' '
' , ' " ' * " , ' = ' # ' (! '
"P ; 8' :5' ' B2@23 ' .2332' 3R ; :+: J 2' < B.2' ?92'
' 3 3 982' +2 .. 5' 4: 9329820 23' ?92 + ' <+9< B3' 428'
; 598.B 38' <: B3 253 ' < 2BB28' .2(? ' ' ' 56'
49 3 2M D' <B: <: 82B' +2' G 8+ 3 9' ' GB 52G2(
?9' 283' 4 58 + ' :' 428' <5 B28' ' ' '
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':&.!'(' *!'."!'#" "(4#"';0%" ,!-"(*/% 0'+*"
#"$"/#!"(' " 'A 'N H @(' #*/29!-% &"
2*+%" 40" &0 60(%" &0 ;0//-"'"9 [' '-&' /' MA'
!'0/#S0/-"4*'%0/% '(*'2*&!/";0(%"*!'07!-&&0#"
4*!%'%*!26"'&"(;'!$<'" ' *(%0' I
'# $ ' '*."!9' "(407/' "% -%0&' *(%*44*'%!7'
5#!'&0%' 60(%05 (0/(2' ' '+0-/5 7' '!'@
/*!$ (!44*(0-% ,!" &" 40((07" #!' "/(#"@ +0-/'
&0/2" 0.0-% "!'&-"!' '20!(" #" &0 $*'+" #!'$" #"
&0/2"'("+;&0;&"0!/"+0-/0&&*/7#"#*/%&"(#"*-7%(
(*/%'044'*2; (' & /1"(%40((;% ,!" '*!' :h '
'(*-% &" &0%-/' ';'4*!"0-% ;%"" !/' /*+'
.";0& #"
$' ' D60@($E'(' /2-"//"+"/% ;'*26" '
$0-'" '#%-'' "%'40"20%026H('4- *"#" .-0/#" '#%-"
:+1@(' ". "<@ *((!(' #0+" "("/%'
"%"(&-' !/' 4"%-% #" ;0(%" U;'*26"'*%-J "#"!('*-@
7/*/("%#!!/" '0%"' < ')'Q!-' +"%-"/% ,!"9"
/" .*!($'*-(("(*(2!+'4*!(-/"'/" 40(%"'0 2"
4"(%"+"/%(U4-&*/J *!' 2"(% ;0(%"3%*'< ') 'NN:-.I('
060(%"+"/!"21"(%&0'0%"' ' 'R' *!"
&"(2!-(-/"(0!&% 4*<' 40"&&"(' 260!#"'*/(' '0@
+0!&:'%*(%-"("% (0!(("'*/(' '*26(('#"$"' 60(%"(
#"$!(%' (2 '0 ' 'U)%
6' # 8+230 58' 4 3 < B' 88 ; + 3 :5' 42
:B ;2'S'+'4 4325.2 42+'1 * '?9'23 325' 2B0
+' '< B 3 E: B' 32 25' G: 8

/08&#') ' D60@(% ' (% "E' 6' %N I' ""+" #"
;*%0/-,!"'Q!-'M' &0 $-7!" #!!/'$"" #" 4-,!"' ":"+@
4&" > $"!-&&" #" 1*("-&&" *!' #!!'&-("'*/' #"(260+4('
' 0I' ' ' *+'#!!/' &!%90/' #!' 7"/'"#"("
" D4*-((*/(E'.*8' C '
-'# $ ' '%
j' ' ' D60@(%-@$*@&-@ ' "E' 6'
"'+" #" ;*%0/-,!" */% &"($"!-&&"((*/% 60(@
% "(
-'# $ ' '%' "% &" &0%' , '$"!-&&"
b$? ' D60@(%-@$*'@+1E' 6' ""+" #-@
#02&-,!"' Q!-0 &0 $*'+" #!!/" &0/2"5 ,!- "(%"/"
$*'+" #" 4-,!"
'# $ ' '%' "%
@0 D60@(%2; @%-@/1E'(' ' ""+" #"
2;-+-"1' !;(%0/2" ,!-((" %'*!."#0/(#"(+-/"'0-(
#"" %"" #1 /7&"%""
%' D6 @$E'('$' 2%-.-% ' $0-"' 4'*+4%-K
%!#" '$0-"' *!(0."< %'*4 #" 6 %"
%M' "% "+4'"((" +"/%'2"%%" 6 %" 4*!" 0''-."*'
4"(*//" /" .*!(0%%"/#'2"%%" 07-%0%-*/' #*/% &0
2!'-*(-% ' "(% &0 ("!&" 20!(" .*!(-/(4-'" 4"!' #1"(@
%-+"4*!" .*!(@+ +"' '-' ' %N .*-"
6 %" 0.*-" !/" 7'0/#"6 %" 0.*-" 7'0/#" 6 %"
0.*-" ":%" +"+"/% 6 %" %" (@4"((' & +"
("+;&0-% ,!" 910.0-(!/" ":%' +" 6 %" 40'%-"'
."'= ' %M' %N '2 %' #"' ' & '*/' #-%
0!((- V 'D.*8' - "+"-#" 06!-+'
$-&(#" "0' #" &0 %'-;!' #" "/90+-/-% '7'0/#1
6 % 0."2 2"!:' #" S!#0 0!@#".0/% #!''*- 0.-#'
-'1 ' ' ' -:- ' M' %N - .*!(0."< 6 %"
2*!"'< #".0/% (" #-% '!/6*++"-+40%-"/%*!,!-
$0-% 1"+4"((' N /6 %"'0."26 %" *' /' '*+4@
%"+"/%'' "/#-&-7"/2"' & 40'%-% "/'7'0/#" 6 %" Q!"
#" 2"(&-"!:' +0!#-%("/' 6 %" "&&" (1":-&"'
> " ' '%*' &&"8' ''.-/% '7'0/#" 6 %"
' '%' '4' %M ' D #' %B %E' %N 0 &0 6 %"
."2 4' *-4-%0%-%-*/' S" &!-' #"(("!/' ;-&26"" '&0
6 %" "% (0/(0'%' 0 "'.'% && ; %-%!/
/-#' 4*/#' 2*!. "% $0-% #*'" 0 &0 6 %"
'-1 ' *!(0.*/(%'%';(@2*/%"/%(#"
'"+0'," (("&"(*'02"(5 ;"0!2* 4 +*-/(#"
2"&&"(#" -//0 ,!-' *!(*/%40'!"!"(/'(("'4'*(%
1 ? '= ' 9 Bh("4%' %AM% NN '*@
."'"' ?-"!-'.0!% ;*//" 0%%"/%" ,!" +0!.0-("
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220(-/',!" #" (" 4'"((" "%"/ (0-(-" !/" +0!@
.0-(" %
:+!'(' * ',!*-' +10("/.*8 "/"7'0/%
60(%" "% "/2*-%"' "%(@:-:' 0" ,!-"(%4&"-/(
#"$*-"60(%"0 &0$*-("(*/'-;"/'/70(%"'
' R %' %N:.-!('("&"$-%*/'0+"""/7'0/#
60(%" -(('-'-%*' %N :.-!(' ' 2*!4 4*!"
60(%" /1080/% 40("(%' ;-"/'0((("/' '/'YY'
!-2%(' $0-"2-/','&-"!"2-/,;"!"('"(-:'(1-&
8'0.*-% 60(%"' - -' / ; ' *!.'-"'!/'&*7-(' &0 ;0(%"
"%&"$*%-$-"'- - -, '
'# $ ' C0&&*/' '#" 0&&"+' ' 0/2'
(20/#'
V$ ' 2 D6 @$E' ' !%" 4'*/*/2-0%-*/' #"
/2 #' D6 @% ' % "E' " ' #" 60%"'
d Q!!*/'$0-% 0&&"" ."" /" 2-.-&-(0%-*/' 6 % "40"
#"(2-"2*/(%0/2"($0.*0;&"(' "(+*'2"0!:'%'*4 6 @
% ((" 4"((/% #0/((0;*!26" ' =, ' - 1-@
.*-" %'*4 6 % '#"!:'$*-("*+4%(!"(0 % %" - %;'.'
0(0-(*/"(%6 % "&&""(%4&!(0.0/2 ,!!"&&"/"
#".'0-%' %N Yd Q!!*/'$0-% # 4 26"' % 40" #"('*@
#"($"((0/%' " (-&"2'"/% (*&#0%'6 % (#!
$'*-#' #" &0 $0-+' "% #" "//+-' %0-% 4'*$*/#'
"% .-' 4 %*%5 %NB!' Q!-0'6 %"
'"(% ":%' +"+"/% 6 % ' 0'#"< ,!!/" .*8"&&"
2*!'-"%'*4 6 % " (*-% #!/" .*8"&&" "/(*/"6"@
+-/";"!% "' */& ' %N #-%'"/'!/' "/(
0/0&*7!"'("/ *6*("(' (%!-4 "!'.*!"!'"07"'0
6 % ' *!((*'*/(' -& (107-%#!!/' $0-% 0(("< 6 %"
? ' & $@"
%' /2&# ' D6 @% "E' ' ""+" #" (""!'!-"'
0"" ,!-"(% 2*!# "%2*/%""@2*!# #" #1 ,!""
%' O D6 @%"@&;E' '+ DN&d "%-% !(%"/(-&
"/$*+-"#" #" 4"%-%" ;'*26" #*/% */ (" ("%4*!" 0(@
(!9"%%-"#""7'*(("(4- 2"(#"(.-0/#" ;'*26"
'0I "%-% ;'*26" #" !/" +"" #"($0;'-20/% # @
%$$"(#" ("&"
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% O D6 @%"@ M@$E' 4' ""+" #"
2!-(-/"' "%-%(+*'2"0!:'#&-20%(,!" "/'$0-%2!-"
'&0 ;'*26"%%"0."2 !/;"%"%
-+-/'#"6#%" 5/*'+' '%'0/26"
#"4*""' %-
V D6 @% E'/' %N "/#'"4&!(04-#"
4&!('4'*+4%'4&!('4'*260-/' %"-&"("4'*7;'("(#"(
0'%(' %4*!"0.0/2"" %*!%6 % 2"% "/%"%-/'

. * ' '"0 " $-&(#1 70+"+/*/'.-"/% 6 %"" (*/'
(!44&-"(U#1!/' "/$0/%J' ' & ' ' Q!0/# 9"
#".'0-(' #!' 2-"& 6 %"" 0'' % $0%0&' "' ' -/' $
S1 2'-.-("/' '7*('4*!"6 %"" 2" .*807" "$"
'%' *!(6 %"'< 2"% 0."/-" 40" .*(# (-'('
'&/ ' "(0((0((-/(%'*4 &"/%(-& ."!%
6 %"" &"(2*!4(' 9 ' ,'S" 6 %" #" +"(
."!:" "% .*!#0-(#-& '"" 1-/(%0/% ,!0 +*"*/'0+*!"
#*-% 2'0-/#'" "% #"(-"" 2" " 9' *'%*' -.' %
%""&" 40(' +0'26"" 4&!(" '04-#"" #" NN ""+"
#" 260(("' "2"'$6 %" (*/' &" 2"'$$!-%%' (@
.-%"' ';(*&!+"/%' & $0!% 6 %"" 20" -& $0!% ,!!&&"
U#"("-&-7-"!(0-"/%4*!"2"&04&!(-"!(("/("#"
4'*$((-*/' ' = M9!-/'%MRY %N ""+" #" +0@
/ 7" "%"<%":4'"((-*/'#*/% 2!8" (" (""%4*!"
0."%-" 1 & ."' ,!- $0-% #"(.*%" 26".0 ("
'0&"/-%-%' %N ""+" #"90'#-/07" 0.*-("'&" # @
."&*44"+"/% #"($&"!'(*!'#"($'!-%(#!!/"4&0/(
(0/(&!!/!-""%N %"'&"($'!-%("/0.0/2"" &0 +0@
%!'-%' '$0-"" *!(0."< %'*4 #" 6 %"' '*.'
%M' "% "+4'"((" +"/%'2"%%" 6 %" 4*!" 0''-."*'
"% 2'0-/%' Yd 0-"" # 4 26"' %" &0 ;"(*7/'" &0
#-/"' /'0'' %"" &" 2*!'(#" U#"&0 .-" #!!/' .-"&&0'#
" ("0-% ,!"6 %" &0 40' ,!" #" %'*-(9*!'(' %/*
'-A'S" %" ; %""0- ;-"/'(-9" 4""/#(!/' ;%'/
'S*#"&"% 50 ('J, '1*/'2*!'"0."%-"%6 %"
&0 4'-/2"("('% ;'-%'NN & ("#-%0."2 '"%
!/' -/$-%-& %" #" (!;-"2"%%" 9!(*/" "*#*/@
/0/2"' ' '/' %*< ."%'
7' '2" ("2*!'("#"#"(2"/#'#"' 9 ; '.
Y' ' -7' / 10 ;-"/6 % '#10&&" "*/'&!-0 $0-% !/"
'!#" ' 4'-+0/#"' */' 10 2*'-7 ' " 2*26"" ,!-
/1 %0-% 40((0%-($0-%#!!/' ("!&2*!4' #" $*!"%"&"%"6 %0
#10&&" #"4&!("!!/(0!%"(' ' < ' '*'/' R
' -7' %" #10&&" (-7/-$-"0!((-$0-" +*!'-"4&!("%
.-%"' & %0-%$*'%+0&0#"5 2"2607'-/' 10 6 % '#10&&"%
' I " 6 %"' / 6 ' 0-"" #-&-7"/2"'/' U -"!J 0
[-%'2" ,!" #-% &" 07"> -& (1"(% 6 % 5"/'"$$"%
,!"&&""#-&-7"/2"' "//!$' 6"!"(1*!.'H "(%02K
2*+4&-5 -& (1"(% % #"&0'%-" "U ?0#0+"J #!' +-&-"!'
#"(-/-,!-%' ('!26' #1 '&' &&" ("6 %" %"'4'
!'6!(' #" %'-*+46"'
/*!(1!/' "% 10!%' 10((!"" '&0$*-(+*/' ;*/6"!'
"%& &" . %"' ' 6 ' %' %*/(@/*!(0!9*!'H
#16!-#"9*!-#"&0.-"5 Q!-(0-% (-/*!("'*/#"@
+0-/3 ' & ' ' 0/(2*+4&"' %" ."' 0&'
&*'(,!"9"&"(+0/#-&-7#*- '/%(%"6 %"
& ' %' S" +"(!-(6 %" %910- 2'-#"';*//
6"!" 40'2" ,!"910-';"0!2*!4'4 ' "/.*('4*@
+"(("(' ' ' 1 '0 '2:.--& % A '&0-(("&0
%*'%!"H " (*/'%'0-/'#" (/0%"!'5 &&" 40'%"&&"'
(1 ."%!%'" &&"("6 %" 0.2 &"/'%"!"'% ' 1'
' ?*-% ' ("2*!'("#"(#"-"!:' +*-%" 4"!' ("
; %0/%' !" !/' +*/0(("<4'*26" "/$-&(#"(0/%%"
"/"%' "0 " ,' %"<@.*!("/"+"/%'%"%%"
(0/("4"'#"'2*!'07" -/$ (@ "/'"+"% #"%"
%"< .%"'*!'.'07" ' & '"-' -+*!"/%0.-+0/#"
+"/("#*/"+"2*!(6"!'4'0.'$! %"/'$'%"
(*/(0"/!)'0&*/'&0'%"/('/'#"'*/'"0.-"0/2*!
#" ' 2*!(0/*/.*&!/%0-' '-0'/% #"4*!'
8"H' 2 ' # # "(#"!:' +*%(/"
(*/% (8/*/8+"(,!" #0/(#"(&*2!%-*/(#"" 2"
7"/"5 6 %" &" 40(' 022 & '"&" 40(6 % #" # @
."&*44"+"/%'022 & '""&"#" ."&*44"+"/%' *(#"!:'
(-7/-$-"/%'-#"/'!" 4&!('04-#"" $0-"" -.-"% 4&!(
-& /"40'0&&"+"/%0 40(02"%%" &-%%"'0-'"#0/(0."2
#$$ "/2"%0/% "!:"/0'" %0/% ;0-% 0((2*//0-("/' &"
4&!' 2"/%"(" 2 0/2"% ;%"&"/%"("% *!'#"9"(2"'"/%0%-*/(
[illegible]
(" 60(%"' '< ' 19 'N:--!'(' &-."(.*!(#*!:&"% 0
+*'%"&"" .0 60(%0/%'< ' 4') 'S" 4'-" 0-' "!
,!-& (" 60(% #"&"."/"" "(+0&"&"(-/9!'-"("(#"
7'0/%"'4'*."'."Q!""&" #"%"&"%' !/'$!'/%!"9 '
AM' -/<(%-"2" "/#"+0-/'10&0 %"-($"-<'60(%"
+"((07-"(&" "-' '*.0 &" ' 2!'% 0&"' 1')
' :-!!I(' */% 4'-(%"/% 2*/("-& &-."/.*-"*-/%' '
1"/2"!!2*/%"'4"' **8(#" &*-(" %" #" 60'%0-/'
4*!" &!-60(%"2'-"'""2-' 9 '111 ' ?0/#
#"< &!-' ,!!'@+*-' U-&J ."//"5 60(%"< ,!" */' &"
,!-"""' ' :/' 0" $"+"/% &" 60(%*-% U-& 0.*-%
6 %" #" &0 26*'"" 026"."' 1': ./' "#*/" 60(%"(
,!" .*!(/" (*8"< 4-"'26!%" U04","!J'
< '4' M' 0 (*&0!('4*" -":'20" %" 6"(%"'
("9*"/"'/" $0'"(%" %*"* < ' '
2*%*-(-"/' ,!-& 4*%" $" "/'"%"-&&"0 (-*/ -&0
("(' 0+-(" (-' ' "(% #" &-" 60(%"'/'%"(0 #"0(
("(0+-('(-"(%#"&-" 60("%#-' &%*'$0)-'%
'?'YY' 'o ı (' 0 %&"'2"/(%0-0-&&"(1"'0 -%0-%*/0-%
0!'2*+*/%"% #" 08/0!%' "% 1"!"/% 0!((-(' 4"!"(,!
(!'4'-(-("(%-/"%"'60(%"'/%#"'4'&'4'&'4'"!'4"!'&'4
"/'%"(%"(' ("7/"'0/'/%*'%2"' ' ' -')' % ("/
".-/" /-0' (0&&"4*!' 60(%"(" &" #-/"'" ' 'EQ'
0/% (" (*/'2*!'+"(0" ,!-&&"/"0%/% &!/'&"%'%*
0(("% 0.0-& 5 &" 26".0&&"5 0&" ('7'0/%"/'0 "
4"!' ,!-&&" "+!!%%&0/'-0 ' 20" "%"+"+" 60(%"
(- #!"+"/% ,!-&&" &!!&"2*'/-" 4"""" &0 40"

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4 58 + ' < B3 2 + ' <+98 = 932' ! :532B G 93' c3B2 = 93
<2B.= ' ' 42 ; 29B2 429A 83 J28 <+98 = 93' S' 3:98
.:9<8 +8 H.29A ?9' ; 2 G2 ; 253I' ; 2 <2B4 253 42
p920 23 ; 25E:R 253 <+98 = 93 ?92 +28 J+28 52
<29E253 ; :532B0 E: '+ ' A' ' 43N <2549 = 93
23 . :9B30 82 4 8 3 495 = : ; ; 2 9J4 23 2A . 934 25 <29
42 32 ; <8 < B 952 983 .2 2A<44 3 E2' :98 <2 52
43B2 <25490 43B2 ; 8 = 93 23 . :9B3 5 95 J G23 0
'B 'D & ' ' =2E ; :53N = 93 :9 = 93 ; :5340
.=2E 4:53 +2 3B:5.' 283 89<<:B38 < B 428 ; 2 ; GB28
>:5J8 23 JB +28' =2E = 93 .= 98840 .=2E .=2M
?9' + 'G 4M 52 8 43254 98?9 9 J25:9 :9 9 BB230
:9 9*428898 42 .28 B2J :58' 2B ; 2 42 ; 54J2'
930 = 930 = 93 A<B288 :5 4:53 +2 ; 3B282 82B3
+:B8?92 +NE2 3 428 . :9BG23328 0 <:9B E2B3 B
<92 8:5 .=2E 52 E2 < 8 882M +2 4?E 53' 2B ; 2
42 9. :552B 2' :+2B = 93 23 JB:8 E:+2B 42 G:5 JB'"
23 E2.' 4B2882' # 93 25 G 8 .B' 428 B ; :529B80
?9' B <<2+2 +29B ; 43 2B 42 B ; :<2B +28 .=2 ; 5428
49 G 93 25 = 8' 5. 25 32B ; 2 4 B3 +2B 2' # 93 2
GB 8' ; 2332M +2 29 9. 5:5' + # 3 +2 G: 8' 5*
. 25 . : ; ; 542 ; 253 ; +3 B2 <:9B B2 +2E2B +28
< ?928' // 5 32B ; 28 4 B+3= ; +3 ?920 = 93 23 G 8
82 4 3 428 429A 32B ; 28 40992 B .3 :5' E 8 53
< B ' G 93 23 G 80 .283* *4 B2 4 E 8 53 < B ' +2
59 ; 4B 329B 23 +2 445: ; 5 329B' 2B ; 2 42 ; K
B 52' # 93 23 G 80 82B3 6 2A<B ; 2B ?9:5 3B E +2
< B3:93 +' + ' :8' # 93 + 'G BB23 . : ; ; 542 ; 253
?9:5 8 3 93B2 :8 9 3 ; :5 2B ?9 54 :5
E:9+ 3 ?9 3 53 + 'G BB2 49 J:9E2B5 4 58 +2
<+ 5 42 + ' ?9 +2 49 5 E B2 +:.93 :5 ?9' <B:*
E 253 4952 5. 2552 4 8<:8 3 :5 42 + 'G BB2 4 58
+28 E 882 9A' ' F] 2B ; 2 42 ; 54J2' ! 252B 95
.=2E = 93 + ' ; 50 325 B = 93 +28 B4528' J 0 23
; + 4B2 ; 253' # 93 + ' ; 50 E2.' 93:B 340 8 58
4 + .9+34' ' ; 252 828 J258 = 93 + ' ; 5' :98 9*
B 2M J92B' = 93 + ' ; 50 'O! 7#(' 0 ' :98J *
J52B 2M E:3B2 <B:.28 = 93 + ' ; 50 ' '
H' :B32B = 93 + ' 34320 82 4 3 49 .=2E ?9' <:B32
G 25 8 '3432' :B32B = 93 + '34320 43B2 2B' J' 23
; + 2B2 ; 253' 23 =: ; ; 2 +2 <:B32 = 930 82 <B4*
3254 42 JB 542 ?9 + 340 23 988' 82 <B4E 93 42
R 53 J2 ?9 4: 3 6 8' 5 88 5.20 '8:5 B 5J0 23.'
2+ ' 93 . 982 ?9 . : ; ; 25. ' 42 82 B2+2E2B <+98
?92 42 . :939 ; 20 42 +2 <:B32B <+98 = 93 ?9 52
8:9+ 30 G984 428 E 528 28<4B 5.28 ?9 82 4:5*
5 30 5: 40 ? K ' 0 2' 43B: ; <2M*E:980 42
JB4.20 23< :B32M* 2 ; : 58 = 93 2 52 8:53 < 8 428
J258 . : ; ; 2 ; : ' ?9 E:98 930 'C ' E0 N'
! 8 3 +2 ; B?9 8 23 +2 <:B32 :B3 = 930
0 >? #6) !7 '" ' 7 #/ '4 58 ' '
! =7 ' 2 <:B32B 3B:< G 930 <B254B2 95 3:5 42
89<4B <B 340 E: B 428 <B43253 :58 3B:< = 9328' >2
E?92 253B2 5:980 ; :5 8 5J 95 <29 3B:< .= 94
283 3B:< 4 ; 9 495 ; :30 23 ' <:B34 3B:< = 930
" ' 640 ' ' ' C" # 93 +2 < 240 25 +2E 53 +2
< 24' # 93 +2 < 240 G2+2 + 8:50 :9B J ; G 42B0
B B2 23 G: B20 'O! # ' " 'D ! - ' "5 # '
B 2A3258 :50 = 93 +2 < 240 8 58 43B2 .= BJ4'
25E:R2B 428 :=2E 9A = 93 +2 < 240 +28 B25E:R2B
8 58 43B2 332+48 5' ; :9+48' 2B ; 2 42 .=2 ; 5 42
2B 23 42 ; 288 J2B 2' B 5 = 93 +2 < 240 3B 5
E 42 42 E:R J29B88' 542 ; 5 34 42 0FC%0 : : :' 5.8
+:942 S . : ; < J5 2 428 82BE .28 ; B3 ; 28
428 ; 288 J2B 28 ; <2B +28 <:9B B 8 42 3B 58K
<:B30 25 G 93 +2 < 240 428 5 E B28 22348 9 82B**
E .2 <:83 42 +54:* = 520 . !# ' "7' #! - ' " '
7 ' 7'1!# 'A/ '82 5.2 49 C EB >FN7'
H ++ <3 ?92 ; 253' # 93+2< 24 ; B.=2M0 42. ; <2M'
' B2 = 93 +2 < 240 4 8< B 33B2 3:93 495 . :9<0
825 9 B' 2 G 5?92B:93 2B ' 3 = 93 +2 < 24'
; 2 3 5 $9283 42E259 +2 .=2E + 2B^ - + 82332' '
3 = 93 +2 < 240 4G8 ?92 R:98 E2M 29 +2 4:8
3:9B540 ' 1& 5' "' ' ! " ' 0 ' ' @ '
5 = 93*+2*< 240 25 32B ; 28 ; + 2B80 =: ; ; 2 ?9 52
3 253 ' B 250 ?9' 4E2 2 +2 ; 253 +2 < 240 ?9' 5
<: 53 443 G+ 882 ; 253' 2 +9' <B432M < : 53 4 BJ253*
2283 95 = 93*+2*< 24' 5. 25 5: ; '42 .2B3 58 : *
. 2B8 ; G9+ 538 428 E EB28 23 428 4?9 < J28 ; + *
3 B280 ?9' 5 E 253 ?92 + ' . : ; ; 88 :5 4:G82BE2B0
8 58 3B2 33 .=28 ' 95 2 ; <+: ' A2' <3 520 :9
. : ; ; 8 = 93*+2*< 24' 5 492 23< B 42 ; '5 8K
8 5.2 5 ++ 3<: 53 82BE B . : ; ; 2 95 = 93*+2*< 24'
4 58 +28 B ; 280 ' 3 0 FF'L+ W <+9B' 28
= 93*+2*< 24' = 93*+2*. :B<80 82 4 8 3 495
G 5?92B:93 2B ?9' 825 9R 3' 9G83 53 E2 ; 253'
5 = 93*+2*. :B<80 E:R' & '8:5 B 5J'
# F" ?"5' J' # 930 '95 B 5J 4+2E40 '95 <: 53
2E4' 28 <2B8:5528 = 93 <+ .428' >2 32 4:552 ; *
2 '?9:53 ; 82 5' = 93 ; :5 ; :9B 23 ; 28 8:58
$33 25 32 . :9B:55 53 B:' 2 3 9B 8 4:55' ; : 580
"N' 1 - - ' E0 ' ' :B3952 283 G 25 = 930 39
<29A .2 ?9:' 39 E29M0 5' ' ! :5 5: ; ' 4 58 5:8

89.2G8 8G3 3 ; 8 882M = 93 :9B B2 ?92+?92
GB9 30 8 58 G2 9. :9< 4 5 983 .20 5' 'C ' 0 8'
+2E2M <29 42 J258 ' = 93 ?9 +8 <9 88253 59 B20
" (' -(' 0 + ' 29A ?9' ; 23325 3 + 'E2B39 3B:<
= 930 '?9'3:9328 +28 = G+28828 < B 88253 428 .B K
; 28 =:BB G+28 :9 ?< 0 428 . :582 +8 42 <2B 2.3 :50
:53 + ' +: . : ; ; 952 42 3:98 +28 4G+280 '1 !#N
- ' $92 8 H+2 < <2 8 53 B2J: B2I' '< B+G 25 .28
32B ; 28 49 32 ; <8 49 B: ' = +42G2B30 23 8 '4+2E2 8'
= 93 + ' B .2 42 ! GB:E420 ; '@ - ' "?- / ' 2
<:232 :BJ92 +29A H :58 B4I 3BGG9.=4 42 8' = 930
' $'?# ' ' 9 5 G+2E '8' = 93 + ' JB 5429B :3*
3: ; 520 'D ; '50 3 ' 5 ; 23 G 25 = 93 +28 :G+ K
J 3 :58 42 E 5J +20 '0 - " / ' 'D 'L B4*
3254B2 3B:< = 930 E: B 428 <B43253 :58 3B:< 4+2E428'
3 8 <B43254 3B:< = 930 2 4:38 44828<2B2 K0
@7 5' 0 ' 7' 58 +28 32 ; <8 < 8848' $92+?92 = 93
?9:5 <9 882 B2 ; :532B0 < :9B B2:=2B.=2B 4 58 +28
= 83: B280 ' @ - '80?- / ' 2<B254B2 952
.=:82 42 <+98 G 930 + 'B . :532B 25 + ' B2<B25 53
495 32 ; <8 <+98 4+: J54' 23 25J J2 ; 2530 ?9' 42*
E 3 +9 '325 B + 29 42 + 'E2532 2A.+98 E2 49 3 G .0
283 95 <: 53 8' ; <:B3 53 4 58 8:5 = 83: B20 ?9:5
52 +2 3B:9E2B 3 < 8 882M 4.+ B. 0 8' 5:98 52 B2*
<B25 :58 +28 .=:828 42 <+98 = 930 ' K '
& ' ! ' NQ' 54 3 ?92+?92 : 8 4 58+2 ; 4 ; 2 8258'
B2 ; :532B <+98 = 93' 2<B254B2 +28 .=:828 42 <+98
= 930 B2 ; :532B ' 428 E2B 348 534B 29B280 ' 428
<B 5. <28 J454B A' +98 = 930 . *4288980 4 58
.2 ?9' <B2.242' 58' ?9 ' 434 4 3 <+98 = 93'
" 2B ; 2 42 ; 98 ?92' 58 95 3:5 = 93' 'E: A
52<293 < 8 ; :532B <+98 = 930 :98 E2M <B 8 3B:<
= 93 25 . : ; ; 25. =3 @ J' 2 <B254B2 = 930 3B 28*
= 930 ; :53B2B 42 BB:J 5.20 42 + '<B48: ; <3 :5' ! 80
; :5 <23 3 ; :58 29B0 <B252M*+2 95 <29 ; : 58 = 930
($'C ' 0 ' +2 +2 <B 3 8' = 93 ?9 < B93 . :5 980
($ 'H# 'F' :98 +2 <B252M G 25 = 930 ; :5K
8 29B 8 .=2M ?920 ?9 54 2 4 8<932 E2.' 95 30 252
+9' . ! 2 @ ; 80 ! # 0 D #+G' " @"5' '
' 2 <B254B2 = 930 8 J5 2 988' B2.=2B.=2B ?92+K
?92 .=:82 42 3B:< 4 . +2' :B8?92 5:98 E:98 <B:*
<:8:58 4 ; 32B 2A2 ; <+2 42 .29A ?9 0 <B48 E: B
; 254 952 E 2 82 ; G+ G+2 0 + ' E 3B20 25 :5 . :5B 9
+2 4 5J2B0 82 8:53 B23 B48 428 <+ 8 B8 23 428 4 88K
< 3 :58 49 ; :5420 23 +29B :53 389.2442B + '<B 2B20
+ 'B23B 320 + ' ; :B3 . 3 :50 + '<B 3 ?92 428 :29EB28
8 53280 E:98 B4< :542M ?9 283 4 5J2B29A 42 +2 <B25K
4B2 8' = 930 # '1 #" - '. (& ' 52 93 < 8 +2
<B254B2 8' = 930 ' B4 ; 20 ,A" ' F 6 S = 932
E: A' B+2M = 93' :98 52 < B+2M < 8 882M = 93'
B 2B 3B48*= 93' +2 25 < B+2 3:93 = 930 2+2 825
E 532 '5:980 ' ,C!"'3' ' >2 +2 4 8 4:52
3:93 = 93 5 ?92 :5 ; 25325420 '@ # !#' 0 '
= 532M .2 ?92 E:98 E:94B2M0 B4<:54 3 '42 ; '
= 93 +2 ; 4 ; 2<2B8:55 J20 ' . ! '(! ' '
:98 E:58 B' 9A + B ; 28 42 .2332 +2 ?9' .= 93'
3:93 = 93 4 58 4J 82 .2332 .= 58:5 J + B42
4:53 2+2 82 . :5 288 3 B 25 9 ; :542 5283 <+98
5:9E2 9 5' <+98 <+ 8 530 8 E' + '@ 5E' NCN'
! R25520 ?9' 42 +: 5 E< 3 +29B :+2 253B2<B 820
54<B 82 25 82.B23 23 3:93 = 93 93:B 820
#25B' E' ++ <3 ?92 ; 253' +98 = 93 2283* *4 B2
< B+2M <+98 = 93' B 2A3258 :5' E2.' 95 GB9 3
. : ; < B4 ' + ' < B:+2 = 932' ; 5J2 = 93 23 E2.'
JB 54 GB9 30 B:?+2 +28 R2 A 25 ; 5J2 530 + '3 G+2
283 <:9B +9' 95 B 32+ 2B0 ' ' J' B+2B
= 930 < B+2B :9E2B32 ; 2 30 8 58 B43 .25.2 5' ; G K
J28' :98 ?9' < B+ 2M 3 53 30 23 8' = 930 .253B2 +9 0
' , ! ' ">!#' 0 ' >2 '4 30 23 3B:< = 930 <:9B
; 25 <:9E: B 444 B20 ; 0 &! - ' E0 8' 28 J258
?9' 4 8253 3:93 = 93 ?9 +8 54 + ' .B: 253 < 80
' '+ ' D 0' ' =:532 443B2 8' <29 :582?9253
' ; : * ; 4 ; 20 42 44 ; 253 B 8 343 2 8' = 93 ; 28 <B:*
<B28 ; A ; 280 2 ; <:B3' 9B + 'E:+9<340 ; 'A' D '
1!- ' E ' B+2B = 930 82A<B ; 2B 495 3:5 42K
. 42 23 ; 4 ; 2 BB:J 53 2 < B+2M < 8 8' = 93 8 *
283 B: 0 2 89 8 B2 520 F' ' (! ' 0 ' : ; ; 253
E 98 5: ; ; 2M*E:980 ; :58 29B0 ?9' < B+2M 8' = 93*
! $ ' -/ -7' .=' 7' B+2B = 930 < B+2B + GB2*
; 253 .253B2 +28 G98 428 J:9E2 ; 2 ; 2538 :9 428 5K
83 393 :58' '283 3BG8*EB '?9:5 . : ; ; 25.2 ' < B+2B
G 25 = 93 25 3 + 20 23 89B3:93 ' 25 820 ' +
' ,!7# '2 @ 5E' - ! ' 2582B 3:93 = 930 B2
. :55 33B2 E2.' B 5.= 82 828 <2584280 .2 ?9:5 '
4 58 28<B 3' 52 8: . 434 <29 5 : ; GB29820 23 ?9'
; 20 ' E:98 <2582M 3:93 = 930 : 'E:98 4 28
E:98* ; 4 ; 20 ' C (& - ' BE0 6 J' 23
; + 4B2 ; 253' 93 .= 532B <+98 = 930 82 4 3 '
952 <2B8:552 ?9' ; 48: +B2 495 G 23 ?9 2+2 ; B*
= 542' J' # 93 23 + B0 G 5.=2 ; 2530 8 58
; G J9+320 8 58 .=2B.=2B 428 4:9. 882 ; 2538'
' J' 23 ; + 2B2 ; 253' 5 52 +9' '< 8 4 3 <+98
= 93 ?92 8:5 5: ; 0 E:R' ' F ' 2B ; 2 42 29A

_1 '4 J1 ' I J ',1 ' 1 ' ' é 1)
'E : 2 I ' ' 1MM ' J1 $. 42 'P'
4 ' Q '2' 1$ ' $ ' 2 2 ' : ' 1$)
' 2 ' , M. '? ' I$ <' M$2 ' .J ' . $'
2 'M$. ' . ' M ' 2 ' 2 $' ,1$' 2 '4
Q' !W B: 'M $E '2' $#' : ' '2 $.:Q
' ' '?# - ' $I ' ' P' .
M1 'E 2 ' J1 $. 42 ' 2 ' J 1Q $'
? '2' J1M 'M1 ' $ E ' $" '4 '
"5' '2 '2$ '? $ '2' 2 'E ' 2 [M1)
['E ' ' ' . $. ' . .'2' 2'
2 I. 'B ' '? ' ' $' I1 21$ 1 ' $' M 'M $'
$MM14$2 1 '2 $ .1 ' . 'M1 I M ' 'J 2'
'4 '1 ' 'E '. 1$ '1 ' '< JE I J '
.< 2 ' , J2 ' 1! - - '$$$ ' 'c 1$ M $'
I1 ' :.J1 [<2$? $ I1 ' .$' '1$' .'
1 ' ' ,1 J ' JE ? ' J $,$J ' ? : 2 ' 1,, 'Y
7# 7 '(!#" '2 'J1 'E 5 '1 ! - * ('
' $ ' 'E 1 ' E $ 1 '
I '2' E ' A < . ' E ' < . '
0 $' ' 1 '? :$2' U. '< '? $M ' 4 $ '
. M . '21 < M ' '4 ' . ' 2 'J1 I)
' < . ' 'E ' ' ' 1 I1$ '$M <$ '
J' ? ' : $' . I ' '+ ' W ' M' .'
M $ ' 2 ' 'E $2 ' ' I$<$' '2 '4 '
. ' 1? J' P: J ' 'E 2 ' ' '
41 1$ 'P: .? $ < ' 'E $2 ' '2' 1
/é : 'E . : '2$ L $ 'P' 2 M$ '
I$ ' . : 'E ' ' : 2$ ' ' J$ 2 M.M
'2' I 'J.2 ' $. ' :1 ' '2'M $ '
? :$2 , 'C1 ' I1$' $ 'J '< J' . : 'E
$' ' ' ' 2 'J1 '2' < ' ? ' 2'
M1 . ' 'J1 2' J ' < ' ? $ I$ ' . : '
E ? $. J ' . ' ' . '2 M$. ' ? $, $'
M JE '2 'E1MM ' . '2 ' $ ' . '2' $J
' ' , #' 1 7B' ? $ J1M4 $ ' .
2 $ 1 '1 ' .$' 1 I '? $ 1' I $2' $^
2 '? 2? '< ' ,, $ ' I JJ ' $ J 1 ' '
'JE1$ $' . 'J 'M1M '1' 1 ' . $' , ')
1 ' . '2 $' '1' $' :.2 I $' 21 ' 1'
M'2 ' $ $' .J2 $ 'J1MM ' . : 'E ' .
J ' $42 ' J1 "+! 7 ' "'D! 7# ! - 'B)
? : 'J'? 'I1 '1Q [I. ' . '2 ' ,1 J' . : 'E
' K '7 'T ' $.J2 ' $.J2 ' $ $ ' .
E1MM ' J$ ' . : 'E 'C "# '
0 ! - ' ' $ $' . : 'E $ ' #' 7- '
#! 'P:1 ' . $' < . . 'J1MM '2 'M$ $ ' . : '
E :$. ' . ' '2 ' I121 '2 ' J$ 2
- ' " ' - ' & ! '80/ - 9 'C) '? '
1 'J1 .M ' . ' $ ' 1 : $ ' 1$)
M.M ' 1 ' JJ1 . '? : ' J2 $' . :
E ' J ' ' $' 1,1E. 'I ' ' 1 '
2 ' J2 . ' ? $:$ 1 . Q) 'C " $ ' '
E ' ' $ 1$>($< $,$ '2 'J1 2 'J1 $2
' ' ' 1 $2 ' . $ ' ' 1. ' . : '
E ' é 'E ' . !(' # ' '2' $'
. $ 'é ' '1 ' 'E ' . '2 'M $ 1 ' $ I [
J J$ 'E '. '2' < ' ' TéP)E . '2' 2$
? $ '2' ('2' 1 '2)E 'C)1 'I$I
.$ [)I1 ' J ' 1 R)1' 1 J ' 'J'
? $ '2 $ R 1 ' I1 ' . $' . '2)E ' 02 '< $2 ' 1$2
. $' M ' . '2 'D 2$. ' . I ' 2$($? :1 '
'? 2? 'JE1 ' . ' 2 ' . $,,$J$2 $? :1 '
M4 ' 1 'J ' ? $ JE ? ' ' 'R A# '
B ' I1 ' ? $ ' 'M1M ' 'M1 '2)E
' # '7' ' < '1 ' I $'
, $ ' M 'J1 '2)E 'C (& - '$$$ W
' '2' J$ 2 ' 1 1 $ $1 ' '$J$)4 'P)E '
. $. ' ' < ' $ J1 $42 ' " J$)E $'
2 $ MM ' 'M $1 ' . :$J$)4 . '2 '. $ ^
21< ' . 'M1 . '2$ # E 4$. ' '2 'I$)
I 'P 'M1 ' $1 ' 'M2 #? ' 1 ' .
JE1 ' . -J)E) ' +7(- ' WéC ' '
E ! ("5 'C '2 'E 'C ['E '
$2 ! é C 'E ' M ' . M . < ' JE I 2
I ' 'E $2 , $' 'M . < ' .2 I. ' ! "" 2 '
E ' ' '4 I1M$ ' 2 ' '2 ' 2
'A ' 2 ' . 'J1 ,1 . '& 7 ' . -'
' & 7 ' - 'E ' '2 'M $' ' ' " : ('
? $ $< $,$ '$M . $ #' E '2 'M $' . ' '21J ^
$1 ' . I 4$ 2 ' ? $ $< $,$ ' . : M42. ' . $) -
J
' # ' (' (' $ "' ' 1$ 'M1 '
1 '2 'M.M ' .$J 2 2 '2 $ ' 7 'E ' ' .$,)
, . '? ' ' , ,$# ' ; ' 1$ ' . ' ,2# '
' # $M ' $. . ' $M 2 ' . ' .$.I $1 'M1 2 'J'
: '? ' '4 '? 'J M1' $I 'Q M.2 '? 2^
? ' $. . ' . 'E2 M ' 2 ' ' ' . 'M.M ' '
E $ ' . : 2 $? $ 1 ' 1 1 ' # . '
M1$ ' . '2 '2 < < 'M1. M ' ; $' . . $< '
' #J ' . 'E ' . : M '? $ 'M $, '2 '
M $. ' .2 < < ' : ' '2' 1 '
? : '42 ' E1MM 'E $ ' 'J1 $ 2 $

[illegible]

; 9 3B ' 60!%0-/"' A2-' (*/' -/(*&"/2"' "(%' !/' 4"/'
%H4'-+%"5' (("< 60!%0-/"+"/%' 9"' +"' (!-(' ":4'-@'
; 20 8 #0 A 'bA' 1&# ' E0
' ' O I' B' B+2B' = 93 52 ; 2530 $ '
RBB=980
-'M ?'D 7 - '23' +2' 89 A2' -
'# ' Q=N*32*52*3'/0 ' ' 2B ; 2' E 2 ++'
; 8' G:5' 6' B2 ; 233B2' 25' 98 J2' B .3=B2' G 93 5
-'# 0 A5B6 8' .2++9 ' ! 3=2+ 5' E2 53' & BB:J 5.2'
23' G 93 523'49' 4 3' G 930 ?9' 8&2 :Bh: 3' 42' +2
-/9!'-"'' 5:' ' 7"!'NN:'-I' (5' ,!"
! B3 58' .253B2' 8:5' 5 39B2+' 983' .:53B 53' 42' 8& e *'
; +2B0 23' G 882B' + 'G 9+3 5234' 23' +2B34' 42' 8:5'
.929B0 #(0 ? ' ' 1!#'(! ' F' : ; ; 2' +28'
:B J28' 23' 32 ; <28328' 82' < ?9253' .:53B2' B:BJ92 +' 23'
G 9+3 5234' 42' 5:8' G 83 ; 25380 ' '322
' ' NB EN' 42' & 7 -'"
' Q=4*G: P' &B' 82' + 2' P' 95' =4*G:3*M' G B*'
; :5 29A/0 ' ; 'LL ' 583B9 ; 253' 6' 5.=2' 32B ; 54'
< B' 95' <23 3' < E + :50 23' 4:53' +28' 8:58' B <<2++253'
.29A' 42' + ' ; 9823320 ; 8' E2.' G 25' <+98' 42' 4:9K
.29B' :B8?92' ; 2 9' 4:55 ' 8:5' <B2 ; 2B' :<4B'
8A ! ' '?# ('"C /0' & 583B9 ; 253 3 :5' E 3'
3' 42' JB 548' <B:JB48' ' + ' +432' 3B E2B8 GB20' ?9&:5'
<<2+ 3' +:B8' +432' ++2 ; 5420 E 3' B2 ; <+ .4' + '
+932' 6' G22P' +28' = 93G: 8' 8&43 253' <2B 2.3 :55280 82'
@:9 253 E2.428 52=28' <+98' 528' 23' E 253' .?9 8'
<+98' 42' 4:9.29B' 23' 42' ; :2++29A0 "' " 'D #- #'
!75 - #' " 7-' 7 - 'H! ')' 'LL B' 95'
2 +2 ; G:9B' 89B' = 93G: 8' 23' = 93' G: 80' @:92B' 49'
= 93G: 80' G 33B2' 952' = 932' 93 2' E 53' +2' 32 ; <8'
' J' # 93G: 8' 448 J52' + ' <:48 2' < 83:B +20' .: ; ; 2'
+ ' +932' 448 J52' + ' <:48 2' 4:9.20' 23' + '3B: ; <2332' + '
<:48 2' J92BB 4B2' 23' ; @28392982' ! 8 8:9E253' 4 58'
.2' 83R+2' H32' 83R+2' < 83:B +I' 95' B ; 29B' 9A' G: 8'
>2332' 0' 42' 44< 30 + ' +432' 23' +2' = 93G: 80' 30'
:++2 ; 253' <: ; <29A' 25' 8 'E2BE2' 54 8.B4320 9' ; K
+ 29' 4&952' 4J+:J92' 253:552' + '3B: ; <23320 '?#'
' ' F' !98 2 25' ?9'@:92' 49' = 93G: 8' 9 0' ; '
+++20 52E29' 4&95' 3B: ; <23320 23' B4B2' 54' 4&95'
3 ; G:9B' +' R' ' ; 4 ; 2' 49' = 93G: 8' 4 58' ; ' ; ++20
! E A0 B4@'2:35.90 8.'"'+ 6' >29' 42' &:BJ920
2: ; <B 8' < B ; '+28' @29A' 4& 5.=2'LL"'$9 532' 44' = 93K
G: 80 82' 4 3' 49' .:B' 5J+ 8' 882' 42' = 93G: 80 G 8*'
8:5' :53B2*G 882' 42' = 93G: 80 .953B2*G 88:5
' 'O I' 8' >2 5' 4& 83B2280 @:929B' 42' = 93K
G: 8' 49' B:R0 ' ; 8' 25' 5:328' 42' ; 98 ?92' ?9 3B2' *'
.'"(' 42' 4 582B 28 ' 5:' 9 " 'D A! & '<' NFF0
4 58'
' 'D 7 '23' ! 'G: 8' Q +932/' 4:53' +2' 3:5'
283' = 93P' 2&283' & 583B9 ; 253' J9' 42' + ' ; ++2' 49'
G 88:5' 23' 49' .:B' 5J+ 80 3& 3 + 25' ! !'5&283' ?92' N
; :3' B 5< 8' <B:5:524' 23' 4.B 3' '& 3 + 2552
%' # > ' Q=N*G:* *83&/0 ' '23' ' 2+9 0
.2++2' ?9'@:92' 49' = 93G: 8' &283' 95' G:5' G 93G:+832'
'283' B B2' 42' 3B:9E2B' 952' = 93G:3832' 28' = 93*'
G:+8328' 42' & <4B' Q25' "NC"/' 8:9 + 253' 6' <+2 5'
39R 9' 42' 3:932' +29B' :B.20 <B:49 8 53' 95' 8:5' 49B'
23' . 5 B4' 8 58' 59 5.28' .' N 'D '"'0?("'
"' 7 =7 '3' 0 <' ""
-' (!'D A! '23' + ' 5 +2'
* * # ' 9 # * *
D6#@#"+6#@(E0 ' ' /2-"/' /*+' #"' &0' 40'%-"' 49'
.#%"+"/%' #"' -16*+ +"' , !-'&"' 2*! .'"' #"4!-('+ '2"-/@'
%!'"' 9!(, !!0!:' 7"/*!:'"%' , !-' #%0-%' '"%"/!'4 "'!/"'
2"-/%!'"' +* ; -&"' /' #-%' 0 9*!'#!6!-' 2!&*%%"' NN -7'
"%%"' $"+ +"' 4*'%"'&"' 60!%@#"@260!(("' "&&"' "(%' +0-@'
%'"((" 0!' &*7-(' #&-0/%"' "(%' !/' +0-%'"((" $" + + "'
"%' (-'9"'/"' +"'%'* + 4"' ' " 0'&0' +-/"' #"' 4*'%"'"&"'
60!%@#"@260!(("('1# - " (- ' -
" 23' 5:98' E:R:58' ?92' 4&95' G: ; ; 2' :5' 82' J 9882
$9 54' 8' 2 ; ; 2' .=2M' +9' <:B32' +2' = 93*42*.= 98820
? ' ' 5'3' ' LL ?7 7#' 28' = 938*42*'
2G 9882' :9' = 938*42*.= 98828
-' 'O I' 8' :93' :2+' 52' E' < 8' 3B:<' ; +' H +'
8& J '3428B4<:5828' 4&95' .=2'428' 9E J28IP' ; 8' ?9:R'
38' 52' <:B3253' < 842= 9+3' 42.= 988280 ' +0 "C0
' ' 2' & 7'" ' '(& 7 ' :9' 428' G 80 < B.2
?92'.2332' < B3 2' 49' E432 ; 253820 @: J5 3' 9A' 2G 98828
:9' G 8' Y
%' # * ' Q=4*32*G:5*34/0 ' ' : ; ' 4&952'
E B 432' 42' < : ; 2' ?9' ; 4B 3' :5' 93: ; 52' LL ?7'
7#' 28' = 9328*G:5328
' 'D 7 '23' ! -
* ' Q=4*32*\:5*3B&' ! 45 J2' B2 ; B*'
?920 9' ; :3') ! - # ' ?92' 42' 8:5' 32 ; <8' + ' <B<*'
5:5. 3 :5' 43 3' = 932*.:532/0 ' ' LL 6' 2B ; 2' 42'
*' ; 98 ?92' '<+98' = 932' E: A' 4&=: ; ; 20 .2++2' ?9' 283'
9*428898' 49' 345:B' 28' G2BJ2B8' 8 253' + ' = 932*'
.:53B2' :9' + 'G 8820 9 'D ' "' LL 6' 2+9' ?9''
952' E: A' 42' = 932*.:53B2' 0283' 952' G2+2' = 932*'
.:53B2' LL W' 7#' 28' = 9328*.:53B20
-'# 'S 6 8' >' ; 2' 82 ; G+2' ?9&25.:B'@:R' 4 58

95' E2B3' G9 88:5' &95' 8 E 53' B:88 J5:+' + '3B2 ; G+ 532' T
.= 58:50 $9 0325 53' :B' + '3 ++20 :B2' + ' = 932*.:53B2'
B' +2' ; J5 B4' 4288980 :B2' + 'G 882*.:53B20 :'
'4 58 7
' 'D 7 '23' (! - # '?9 0 25' ; 98 ?920 2
<B254' 8:9E253' <:9B' 2A<B ; 2B' .:' ?9' 283' <:9882' 4'
95' 42JB4' 2A3B4 ; 2
3' * ' Q=4*32*+ *8 4/0 ' ' 9EB 2B'
?9' 3B E +2' 9' ; 43 2B' 42' = 932' + 882
' ' :R'
! ' Q=4*32* ; 5/0 :4W' L> 6' E2.' = 9K
329B0 :BJ92 +' 2' 89<2BG2' 253B2<B254' = 932 ; 253 +28'
.=:8280 ' ' J 82B ; :50 ! - ' ' &=: ; :20 42'
8 '5 39B20 <2582' = 932 ; 253' 23' 89<2BG2 ; 253' 42' +9 *'
; 4 ; 20 23' 52' <2582' 58' ?92' 42' +9 * <4 ; 20 '
'N #' ' E2.' = 9329B0 J+: B2' 2.=: A' <:9E 3'
.: ; G+2B' 3B: 8' ; + 28' 42' J+: B20 :58 .B2B' = 932K
; 253' +29B8' 5: ; 8' '+' ; 2 ; : B20 ''D!#' 0 "'
! 8' 4& 889B' = 932 ; 253' +2' 3B : ; <=28& <<B 2320 '
@ # ' 0 M' LL E2.' = 9329B0 E J929B' :9B' +28'
; 233B2' 25' 44B:9320 29A' 23' 3:58' +29B8' .: ; <+ .280 >2
5& ' ?9&"' 42<+:R2B' & << B2 +' 428' 89<<#.280 3' <:9B'
8:+4 38' .=: 8 8' 25E:R2B' 428' G:9BB2 9A' $9' <:B3253'
= 932 ; 253' ; 28' = .='' <:9B' 4B <2 9A0 'O! '
'N' B98 8' 3' ?92' 4: 8*@2' 43B2^' -' .: ; 442'
:3P' 2<B252M' = 932 ; 253' .2' 5:G+2' . B 234B20 5'
D ! 5' '!' -'G 25343' 89B' 29A' ; &2 +3' E25J4'
= 932 ; 2530 "' D!#' 0 M' >&2 ; <B9532' 49' 82.:9B8'
23' +2' 8' = 932 ; 2530 ; '' (! ' 9 0' F' +' H = B*3'
+28' S I' 3' 42 ; 542B' = 932 ; 253' ' &2 ; <2B29B' 4& +W'
+2 ; J52' 2A2.93 :5' 49' 3B 34' 4& 3B 583 40 '
1& # ' A 'FL@ 6' &952' ; 5 B2' ; 5 283: ' 8 B
25' 93' 2<B 80 23' 49' ; : 58' @&298' + ' J+: B2' 2' +2' E: B'
= 932 ; 253' 4:552B' + 29' 42' +2' .B: B20 ; 'O! ' 0' '
3' 4 58' .2' JB 54' B2E2B8' @2' & 'E9' = 932 ; 253' J52'
4&23B2' ; :5' B4B2' 23' 4&23B2' ; :5' ; 530 5'D"# ('
' '#:5=B: 8"29B' = 932 ; 253' ?92' 5:98' E:58' 428'
R29A0 ' ' (! ' E0 ' LL J # B4 ; 2530 + GB2 ; 2530
B48:+4 ; 253' ++:58' 42' 8 ' B4<:582' 6' E:3B2' .: ; K
<+ ; 253' B254B2' &: .. 8:5' 42' < ; +2B' = 932 ; 2530
.: #' ' (! ' '"' 3' @2' B2 ; 2B2 B '?9' ; 2' 4 3' G 9*'
32 ; 253' $ & + 52' ; &283' <+98' <2B ; 8' 42' E 5.B2' ; <9*'
52 ; 2530 ' ' 0 F' :3B2' ; +=29B2982' B2 520
4:55:58*+9' = 932 ; 253' .2' 3 3B2' 4:53' 2++2' ' 3' 9='
89@23' 4& .3 :58' 42' JB .280 '@ - ' "?-/ '
1 '?92' E:98' 4 328' E:98* ; 2 ; 28' 25.:B2' <+98' 8:9E253'
23' '98' = 932 ; 253' ?92' ; : 0 0 ' %%B' " '
' - ' ! - '3' 50 <* """ + ' 2340
< B ; '+28' =: ; 528' 25' <+ .20 95' 428' <B2 ; 2B8' ?9'
; 253' =8X32 ; ; 3' < 4'B4' +28' 8. 25.28' 9A' 3 +2538'
3 :+280 +28' B38' 542288 B28' 9A' B38' JB4 G+280
0 A 7# ' LL "6' >' E: A' = 932' 3' 4 328'
= 932 ; ; 33' '? 2+' <B A' E:3B2' .=: A' 293' B< &9'
42' 5:98' +2' <+98' =29B29A' 428' B: 80 'K!"!/' 0
"' >& 'E:3 +9B .=232B0 &24 30 2A<B2 8 ; 2530 5' ?9
4& 8 G2++2' ' 8: 3' +9' = 932 ; 2530 'C ' " ' #'
'7' +2' H"' J:5 2I' 82' .:5 :B ; 3' 9A' :B4 28' 42'
290 2++2' 5' : ; 3' 828' 8: B 5:28' 25' 2A< 3 :5' 42'
828' 93280 2++2' <B: 288 3' = 932 ; 253' + ' : ' . 3=:*'
+ ?92' 23' + ' B289BB2.3 :5' 428' ; :B380 ' Q?'
"> # ' ' J' 29A' 8.2<3B28' 25' ; ' ; 50 +G2' "'
; 2' 882BE 2' B+253' G 25' = 932 ; 253' 25' E29B' 42'
8 'E 20 'D!#' E0' 0 '4:9+29B' 4&952' ; 4B2' B+2'
<+98' = 932 ; 253' "' 82' '8258' :<<B28828' $ 2' +2' 8 5J' 42'
598' 23' ; 28' .B ; 28' < 88 0 E: '@ # 'E0' "
-*' # 83' S 68' ! :530 : 2' H +I' 28.B 2' 2+' = +32 ; 253'
23' .+ B0 1&'' @! '2A=E'QLA+ & 8' I' < B+' = 932 ; 2530
G 25' 83: B' 8' : 80 @ B 'A + ' E 4' B2.253' G +32*'
; 253' +28' ; 288 J28' 2' +2' ; 542 ; 2530 @! '<0 " '
S 6 8' 28' .+:.=28' 42' + 'E +2' 8:552B253' = 932K
; 2530 D # ' A' 3' + ' .=2E + 2B8' 2BB 9 ; 53' H<B: ; <*'
; 32 ; 2531' 2 .= 5.20 ?92' <+98' 5&' 3253' 9 8' 283' 25'
+ '8 +2' E259M' +' = 932 ; 253' 283' B2.2 M0@ - ' M '7F
S 6 8' 3' ?9 54' 5:98' 82B:98' <B 80 5:98' 2B B:58'
.=2E 9A' 428' 28<2B:58' 23' :B 2B:58' 5:8' .B 8' = 932 ; 2530
- ' 0 0 7' S 6 8' '8&28 ; 2BR2 ++: 3' .: ; ; 2' +5'
+:9 : 2538' = 9+32 ; 253' 2 ?9 ' '0 # 1 'C
-' (!'D 7 '23' +2' 89 A2' ; 2 P' < :E25?')'
-' 7 - 3' 28< J5' 3 3 + ' A -
' Q=N*32*8' 0 'M ' 9' 8258' <B:<B2' ?9'
5&283' <+98' 38 3' ' + E 3 :50 = 9329B' 2' ; R832B289B*'
< 882< B' 8' = 932882' + ' ; 289B2' 42' 5:3B2' 8258' 1!-N
'"'! ' #! '4 58' '@7(&'' 'LL 0' 3B2'
?9&: ' 4:552' 9' 89+3 5' P' 2?' .23' 2 ; <+: 0 :5' ; 23'
952' ; @98.9+2' >& ' 25E:R ' "' + ' : 8' 428' ; :53B28'
"' "' # 932882' ! :983 <= '23' "' ' ! @283' ; < B +2'
B9882' ?9' G 3 3 9@:9B8' ' < 9EB2' # 932882 0 9
+ '?7" # ' ' :.3' 00
-' # ' S 6 8' :9B' ?9:'@2' <2B42B '+' = 932882'
H+2' = 93' B 5JI' 23' &:5:B0 ' ' ' .! -)'
(#!'<' ' 9' 5:G+2' 23' 9' <: 88 53' G B:50 "' 8:5'
3B28' .= 28' 8 J5:B0 "' = 2G 93' < B + ' JB .2 42' 29'
B:' 42' E BB2 ' B20 8 .=2' + 'E:3B2' # 932.2' ?92

' 0 7"!' 2 ; G+ 53' +:B' 3' 4&283B2' +: 980
$9 53' +:B' 42< B3' 42' 828' @:+ 980 : ; ; 2' 4&:5:B8' 23' 42'
B .=288280 24 J523 8' 23' 42' = 9328.280 '.! '"'N'
5' .: ; ; 25?'"' 242 2B' ; :983 2B8' 23' <+9829B8' ; 28:58'
42' B2+ J :5P' 253B2' +28?9 2A' & GG R2' 42' :R 9 ; :53'
<:B32' :5529B' 23' + ' = 9328.20 ' ' 7F' &:5:B8' 23'
+ ' = 9328.2' ?92' .=2E + 2B8' 23' .=2E +2B 2' '23' 42 3'
E: B' 8:B'3:328' 93B28' ; 5 2B28' 42' J2580 B'" #''
"FC'H S 6F' 249 3328' 42' + ' = 9+32882' 42' 3:98' G 258'
23' 3:98' = :5529B8' ; :54 98' "' 952' E 2' G 882' 23' <B*'
E 20 #(0 , ! ' ' 52' JB 5429B' 23' = 932882' 42'
.:9B J20 5'0 # ('C
-' (!'D 7 3' <B:E25^0 B ' 7 / 3' . 3 +'
3' 2a< J5' 23' <:B39J' bA 3' 3 +' / / ' 58'
& 5. 2552' + 5J920 & 7 ' ' -'+28' 8258' ?92.: ; *'
<:B32' 95' 89G83 53 '4 B E2' 42' & 7
* ' Q=N*32*3"*++&0' ; @ ++ 28/0 3' '
5. 25' 32B ; 2' 42' ; 98 ?92' ?9' 82' 4 8 ' < B' :<<:8*'
3 25' "' G 882*3 ++2' &283' + '3 ++2' :9' 3 5:B' L?7'
7#' 28' G 9328*3 ++28
-' (!'D 7 '23' ' 9' 8258' 42' 325:B
' Q= *329B/0 ' ' @L 6' ; 258 :5' 4&95
.:B<8' .:58 42B ' 49' 3 :'"' 8:5' 8: ; ; 23' 23' 5K
; +' '3B: 8' h4248' 23' 42 ; ' 42' = 9329B' ' = 9329B'
42' + ' ; B 2' 28' 2 9A' 3323: B253' 952' = 9329B .:5K
8 42B G+2' 5' B .20 !' '4232B ; 52' + '
= 9329B' 2' B: R ; <2"" "C' 3: 8280 '?"" & !#'
##'U<75'3'S 0 <'" C' LL : ; G2B' 42' 8 ' = 9329B0
3: ; G2B' 3:93' 42' 8:5' +:5J' LL J' 2582B' 3: ; G2B' 42'
8 ' = 9329B0 3B2' 8 8' 42' 89B<B 82' 3' +2' < 9EB2'
E:+29B0 52' 3B:9E 53' <+98' 8:5' J J20 258 '3: ; G2B'
42' 8 ' = 9329B0 ' 'A0 N'LL# 9329B' 4& <*'
<9 0 = 9329B' 89 8 532' <:9B' ?9&:5' <9 882' 8& <<9R2B'
23' ?9'283' E +9 2"'99' ; 3B2' 25E B:50 @@ J' :98'
+28' B2 ; 233B 2M' G 25343' "' = 9329B' 4& <<9'H"' +29B'
<+ .2I0 8 ' ' "'"'' # 9329B' 42' ; B.G2' 4&28. + 2B0
C' .253 ; 3B28' LL 2B ; 2' 42' .:583B9.3 :5' "3 ; 253'
BB E2' "' 8 ' = 9329B0 G"3 ; 253' 4:53' +28' 88 828'
8:53' 882M' +2E 28' <:9B' B2.2E: B' + ' .= B<2532' 2'
B: ' + ' B2' +2' 3:9B' 42' 8:5' 5:9E2 9' < B20 23' 3B:9E'
+28' ; 9B +28' "' = 9329B' <B28?92' < B3:930 ''
0 "F0 ' : 3 "NF"' '# 9329B' 49' G B: ; 3B20 + '
+:5J 2 B' 42' + ' .:+:552' 42' ; 2B.9B20 ?9' E B 2' 89 *'
E 53' +28' + 29A' 23' +28' 32 ; <8' Lh 2B ; 2' 42' J :JB <= 2'
9329B' G8:+920 = 9329B' 4&992' ; :53 J520 4&99'
+ 29' 9*428898' 49' 5 E2 9' 42' + ' ; 2B' # 9329B' 82+ K
3 E20 = 9329B' 4&952' ; :53 J52' 9*428898' 49' 8:+'
89B' +2?92+' 2++2' 8& <<9 2' LL 2B ; 2' 42' J2:JB <G 8'
G:3 5 ?92' # 9329B' 42' + 'E J 3 3:50 = 9329B' "' + *'
?92 +2' +28' E J23 9A' .288253' 42' .B:+3B2' LL ' ' 2 4 3'
42' .2' ?9'E '29' ; :53 53' 5' .G2 ; 5' ?92' 8 ' = 9K
329B' 23' 8:90 <B232' B254253' 3:9@: B8' 882M 4 .+20
0 @ - '">-/ 'LL ' & + E 3:5' 4&95' .:B<8'
9*4 8898' 42' + '32BB2' :9' 4&952' 89B .2' 28' J+28'
E:+253' "' 952' 3B 8*JB 542' = 9329B' ' = 9329^' 428'
59 J28' LL 2B ; 2' 42' J2: ; B 2' 83 5.2' + ' <+98'
.:9B324&95' <: 53' "' 952' + J52' :9' "' 95' <+ 5' ' = 9K
329B' 4&95= 5J+2:9' 4&952' <RB ; 42' 283' + '+:5J929B'
42' + ' <2B<254 .9+ B2' G 88 2' 49' 8: ; ; 23' 89B' + '
G 82' LL 2592' 42' ; B 52' ' = 9329B' 2932B2' +28' <:5380
532BE +2' ?9' 8 < B2' 429A' <:538' LL"' 2B ; 8'
4& 83B:5: ; 2' $9 53 3 0 ; 289B 2 < B' 95' B2' 42'
JB 54' .2B.+20 4:53' 95' 83B2' 283' +2E2' 9*428898'
42' &=:B M:5' ' = 9329B' 4&95' 83B2' ' = 9329B' 49'
< +20 ' # 9329B' ; B 4 25520 + '4 83 5.2' 4&95' 83B2'
"' &=:B M:50 9' ; : ; 253' :9' .23' 83B2' < 882' < B' +2'
; 2B 4 25' LL# 9329B' 49' 8:+2 +0 +2' <: 53' : ' .23' 83B2'
283' "' ; 4 ' B254B2' + ' = 9329B' 49' 8:+2 +0 :90
8 ; <+2 ; 2530 <B254B2' = 9329B0 :G82BE2B' E2.' 95' 5K
83B9 ; 253' + ' = 9329B' 5J9 B2' 49' 8:+2 +' 89B' = :B*'
M:5' 28' B G28' 5&:53' < 8' 9' < + :32' ?9' 8 .=2'
<B254B2' = 9329B0 '@! 7# ' "N"' B+2B' 42' B2'
+2' <: 53' :9' 42' <B254B2' = 9329B' 233' 32' 42' &= GB29'
<:9B' 5:8' ; B 580 ' 335 '< B3 2' F6' LL 2B ; 8'
42' ; "B 52' 2B2' "' + ' = 99329B' 4&952' #20 4&952' E +20
3B2' 4 58' N ; ; 2' < B ++ +20 4 58' +2' ; 2' 42JB2'
42' + ' 3 3942P' +: .93 :5' ?9'E 253' 42' .2' ? 20 ?9 54'
:5' 283' 4 58' +2' ; 2' < B ++ +2' ?92' +20 :5' 50283'
9*428898' 5' ' 9*4288:9F' 42' .2332' +20 < B' B <<:B3' 9'
< +20 < B' 2A2 ; <+2' LL N' :++ 520 ; 52:.2' >& <*'
<B:.=2' 4&952' <23 32' E +20 23' @2' 89 8' 4 @' 89B' 952'
= 9329B' 4&: '@2' + ' 4 .:9EB2P' 2+2' 283 8 39 2' ; +*'
. 320 952' B E+ B2' = J52' 828' ; 9B20 ') $ ' 9 '
= BJ ' 42' ; &2 ; < B2B' 4&952' = 9329B' E: 8 52' $9'
E: 3' +2' . ; <' B2 ; 50 +2' 82BB2' 23' +2' 4: ; 520 '
"' ' "' 5 5' 952' 42B5+ B2' = 9329B' B2832' "' 42K
< 882B' P' 2++2' 3:9.=2' "' !:8::90 ?9&2+32' 4: ; 92' P' 2&283'
+2' ! :53' 49' +93P' +' 8& <<2+2 58' < B.2' ?920 42'
8:5' 8: ; ; 230 "' & 8<2:3 V&2 +29B' E ++2' 8 +9320 +28' = K
G 3 538' 82' 8 J5253' ' <B:832 ; 2530 7 'D '"'
. "'-- ' "0' LL J' G83 .+2' ; :B +' .: ; < B '"' 952'
= 9329B' :8?9' ; :+ 88 2M 2E 53' +9' +28' 49B23 8
428' ..29B8' :G83 280 23' ?9' <+ 5 88 2M' +28' G 93. B8

[illegible]

[illegible]

[illegible]

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Q2 ; <+: ' ?9 ' 283 <2998 3 'n' :98 E:58 < 88 ' <+98
42 4 A <:938 ?9 ' 5&'3 253 J B428 42 <2B8:552 23
< B3:93 : 4 5:98 E:58 =2G2BJ4 5:8 =4328 5&:53 <: 53
3 42 4 .9+3 " 42 <B254B2 42 & BJ253 42 5:98 9
+ 'FN' Q " & =4G2BJ2B W '# ' 5 32B ; 28 4& B.= *
32.39B2 8& 4:882B 89B 23 .:53B2 55' ; 9B ; 3:R25
- ' # 'S 8 ' B 5.' 82 =2BG2BJ253 < B 3932 + '
.:53B22 1& ' " '@! ' 9' 83 &2 ; <2B2B2 ' 3258 283
42 & =2BG2BJ2B & ' 119 ' 289M + 'B E2 8253 B 5*
.2 8 =2G2BJ 2M ' .A.E ' LA9 8 ' =2M 95' =:832 H +8
=2BG2BJ253 ?9 ' ; :9+3 283: 3 <B94=:5 @ B ' AA '
'A 5 F' 3 ?9 53 + 9B253 =2GB2J 4 8' E 53 5
3 2B8 @:B 952 ' 53 ; 28 E2539B2 ++92. 253:9B &29B2
42 E28<B28 9 ' 1 1' ' ?9258 H+2 .: ; 32 +28
=2G2B@ ' ; :93 =:5:B G+2 ; 253 D # ' A' 53 >9*
+ 258 3*2+2 E29 ++2M ; : ' =2G2BJ 2B ' AAA A'
2 <9B?9 53 @:' 89' 25E2 2M 9B E98 =2BG2BJ2B 2
8254B + ' 2> " #" ' B+ ' +298 H+2 + 29/ 4&: 8 98
=2BG2BJ 2B &283: 3 52 4 5J2B298 52 .= .=28 52
; 28 52 '598 +298 8 'B .=28 & BGB28 52 4&: 8 ++:58
.= 53 58 + '@! ' "C ' B E + 23 4.:+:B + ' =2BG2BK
J253 3G ' "N 7' 3 25 32A H32++28 ; 5 2B28 42 .92B8
H.:29B8 52 82 <:3 +: 348 =2BG2J 2B ' 'C'
S 6 8 ' '42 G2B '25 R.2++2 E +2 82 =2G2BJ2B 8:R
23 828 J258 'H #/ ' ' F' 3 <+98 .253 : 8 ; 2
<+ 8: 3 4&:9RB 4 B2 ' 5 8 G:5 .2 + " D :G 5+2
G2BJ2B $92 E2: B .=2M 5:98 3B: 8 .2538 G:29 M32*
G2BJ2B

' 2BBR 7 #/ # ' #/ # 23 & #/ #'
.:9EB B GB 32B G:9BJ9 J' !#/ "3 J452E' G2B*
/ #3 <B:E25?' #/7 #3 28< J5' 23 <:B39J' #)
/ #3 3 + ' #/ # 3 49J2B ; 5 ?92 5. ' = + 2 ; '
& # #/ ' . ; <2 ; 253 ; + 3 B2 42 & # ' "B ; 42 23
#/ ' +:J2 ; 253 ' <B:<B2 ; 253 +:J2 ; 253 428 J258
42 J92BB2 <9 8 < B 2A3258 :5 49 8258 ?J 8 25 J4*
54B + 23 ; 4 ; 2 9G2BJ2 QE:R' .2 ; :3/
_ 'Q4*G4B*3 *8 / ' C ' 2B ; 2 4&= 8*
3: B2 42 + 'B4E:+93 :5 B 5? 82' B3 8 5 49 ; 2 ; GB2
42 + ' .: ; ; 952 #2G2B3 9+3B *B4E:+93 :95 B2 ?9'
B44 J2 3 +2 @:9B5 + 53 39+4 ' +2 4B2 9.=2852
3' ? # ! " ' 'Q4*G4*3 5 3 5*3&/ :4R $ '
G4G232' 52 :..9< 3 :5 952 = G 3942 =4=4 532
3# Q4*G4*3 *8 :5/08 ' 3 34&4 ; :98*
82 ; 253428 8258 ' JB:88 4B234 42 828 <<43 38 H49
:: .=:5 44<254 42 &=4G43 3 :5 428 82<8 49 J:43 23
49 3:9.=2B ' 1! (&! -
' 3' & ! - '42 2G.3:^62 =2G432B
?) "& 'Q4*G4*34 322/ < B3 RA3884 4 =4G4*
32B' >&25' &28<B 3 3:93 =4G434 235 @ -('#" '
! 8 + 283 42E259 .: ; ; 2 95' =? ; ; 2 =4G434 ! 3
, # ' ' >2 + 882 9A 4:9.2B29A .2 + =J J2 2:34
+ 8&254:B3 95 28<B 3 42 ; : 2882 =4G434 '@
S' 'H :.B 32 43 3 :B3 + 4 23 :93B28 + 429B
E 3 4 58 8 ' <=R8 :5: ; 2 ?92+?92 =:82 4&=4G434
23 42 839< 42 'K ' - ' +< '3' E
<' FC 4 58 ' 3B2 =29B29A .: ; ; 2 ; 'B:
4 3 +2 <29<+2 =4G434 9 ' ('3' 28 5 3 :58 =4*
G23428 42 ; 29B 253 4 58 +2 8 +25.2 < ' A(7# '
5 : ' :93 +2 ; :542 82 B2J B4 3 E2:' 428 R29A =4*
G4348 '?5 - 7# " ! # MM 9G83 53 E2 ; 253 '
5 583 392 428 <B43B28 :5 GB4+2 42 &25.258 :5
<B482532 428 8 .B .28 " &4 ; 2 4&95 =4G434 H &2 ; <2*
B29B + 942I N' '0# -('N' .B B2 25 8 J2 23
E EB2 25 =4G434 ' ! 9828 J B42A E:8 E29B8 <:9B
?92+?92 93B2 @ ' ' 0
? 'Q4*G4*32' 8R++ G2 '<B254<5' ..253
JB E2 ?9 54' + '8R++ G2 ?9 ' 89 3 2 3 ; 92332 ' + G4*
G432 2A.2<32 9 939B 23 9' .:54 3 :552+ @&=2G432*
B @&=2G432B 8/ / ' 'LL D 254B2 :G398 4 9:9884 25
< B+ 53 42 28<B 3 428 8258 < B .: ; < B 8:5*" 95
3B 5.= 53 ?9&:5 4 ; :9882 28 28<B 38 :53 42J454B4
4 58 &+542 b<B:= G+2 ; 253 +2 J:9E2B52 ; 253 3 B3 B2
+28 ' =4G4348 9 ' (7# ' D ' 42 J + 532B 2
5& ' <: 53 =4G434 3 'B 8:5 ' ' 6 ' ('5 '
'] &=2G232B 5 '#" ' 2E25 B =4G434 2 2 ; 442
283 42 8 4G232B 42 52 <: 53 <2582B 8 E 'N"
- ' # 'S 8 ' & ..:9839 ; 5.2 =2G232 5:8 8258
! ' N' + 283 :5 8:3 8:5 J: 83 283 ; :9882 23
=2G2832 @5 ' 7' 'E 2 ++2882 :9 G+25 + ' JB 56*
429B 42 828 ; +=29B8 +9R E: 253 3B:9G+4 +2 8258
23 =2G234 +2 8253 ; 253 42 4:9+29B # 0
H# (=7 ' %N
- ' (! ' 3' & # '42 7 '4 ; :9884
3' 0 'Q4*G4*39*4&/ 8' ' 25<2 42 5442*
. 52' << B25.2 =4G4342 ?92 <B482532 95' + 42
4 58 .2B3 528 2.3 :58 .4B4GB +28
- ' (! ' 3' & 7" - ' 23 3 42 .? ?9 ' 283
4 ; :9884 42 & ' 4 ; :9884'
S$ 'Q2*GB **\&/ " ; 'LL 6 $9' << B3 253
9A #2GB29A' ' + 5J92 =4GB ?92 'LL 'E4B 34 =4*
= ?92 5: ; ' 4:554 < B 8 53 >4B4 ; 2 9 32A32 =4*
GB29 42 & 5. 25 283 ; 253 'LL ' 2B ; 2 4&G 83: B2
5 39B2++2' :53 +2 .:B<8 : B2 428 4288 58 ?9&:5

J1M ' !' . ' 2 ' E.4 $? ' '#' ' . '
.$ J ' 'C $' 1$ 1 ' . ' < ' 2 $
'# & ' ' . $# J . ' 1 E 4
3' # +$! 'Q4*GB **\2* ; 5/ "5' '
+ ' ; 5 2B2 428 #4GB29A
; GA X '0.)4)$)[7 'M' ' - I '
? $; JE ' ! :. . ' . ' 2 ' 2 < 'E.4 $? '
'K ' . ' 14 I ' 1 ' J)
2 # . ' . ' . ' 2 'G$42
- ' # $ 'K # #
' ; GG A' 0)4)$)[.7 3' ' I$' .:E.)
4 2 M ' ' _1 B . $' ' :E.4 ' ' .1 '
2 ' 1 $ $1 ' - ' ; .4 # ' \$ JE ' .$' ? :1 ' J 1$)
$' ? ' 2 ' ; .4 # 1 '1 '$M$.' . ' <Q $
1 ' ? ' 2 ' <Q $ ' 1 'E 4 $. 9 '0& ! '
D ' ' ' ! # ' 1 '
'# & ' ' 8 $1 , $ ' ! ' 2 ' M1. ' . ' ; .^
4 # . '2 $1a 4.4
; GA '0.)4)$) M:7 ' 'P1J $1 ' $)
J 2$ ' ! ' 2 ' 2 < 'E.4 $? ' ' '2$ ' '< J
M.2' .:E.4 2 M 'K '$ B
'# $ 'K" # #
, # & '0.)4)$) :7 ' ' Q 1 QM' '
$.' .:E.4 $ ' ' . JE5 ! ' : . ' . '
:E.4
; GA '0.)4 7 ' ' H X1M . ' 2'
$,' P ' ; .4 # ' ; .4 ' ' 'M1' : ' ' '
, .M$ $ ' 1 ' ' .$' ' 2 ' ; .4 M $' 2 '
B $I ' 'K" P < 'E.4 $? ' P:E.4 '
. ' 2 < ' M$ $? ' I ' ? :$2 ; ' .421 $
2 $)M.M 1 ' ? :$2 I ' .421 $' 2 ' ' 1 '
< J ' ' 1 'E.4 ' % i ' - # ' 7# '5 #N
! - ' "7' ' !75' , ' ## I T' / ' / ' O$<' '
, M2 M ' _: ' . ' :E.4 1 ' :Q ' $ '
J1M ' . ' _: ' . ' :E.4 ' 1 'M1$:Q $'
$ 'J1M . '$: '$ ' 2 ' I1Q ' I 2 '
. ' I1$' . $' 2? ' 12 '$ 2$ '? $,
. ' :E.4 ' 1 'M1$ ' 'H7/ ' "> ? # ' $
'C 21 ' , ' , $ ' 2 ' 1$ ' . ' . ' . ' :E.4 ' 1
1 'M $ ' - "#' $' - ' 'H ; 4 '
J .2 'J J 'E.4 $? 'M1. ' ' I - ? " ; '
M'P' # 'E 4 2 ' # ' '2 < 'E.4 $? '
_$ ' . ' < 'E.4 # ' _ . J $; '$ $.'
' , .M$ $ ' 'J 'J '1 ' 2 ' M 2 J' 'E.4 $^
? ' 2 ' 2 < 'E.4 $? '4$42 'E.4 $?
' ' # ' ' J$ M: ' I1$ ' ' 1$ [I '
M1$ 2 'J1 1$ 'X 'M' I $2 [M. ' . 'M1$
D ($ X ' '4 $' ' 2 $ ' T'
' D' ' ' 21 '21Q E 4 ' ' ' 2 $ $' 1M)
M ' , $['J 'M1 . ' 0)'
' . ' , # /' '#I$' 'C 2 ' 'E 4 $ 'U 2 Q
' 2 < ' ? :1 ' J1M . S @' 9'
'4 ' K ! . 'P _AX
' P ' & # 7@ ' < J . $1 .
K # ' $.) $).$2 ' .(M' 21 'A + -N
/7 ' =7 ' 1 $V' ..$P $2 I$ ' . '& # '
< '&" # 7B I ' .$$.' 12 1J J # .: '
. 2! ' . ' 2 I ' 1 I $' . V M '1 2 '
$' . ' 2 ' 1 2 $1 ' .M$ $? 'E 4$ $' - ' . ? ' .
: E ' ' $' . 2!
' ; 0E.67 'O1 ' 2 JE '? :1 ' 1 ' '2 '
I .M< ' I ' . ' 2 ' 1 M 'C J $1 ' . ' 1$
' ' # ' D' 'P' 2$ ' 1$' ! ' 1 'E $'
1$' ' 1 'E J ? $, $' $? ' . M$ J21 '
.: 'E $ " ' '& 6 ' 2[' 2 ' M42 '
E ' 'E J . 'C $' . ' C1 2 . ' .$' 4 Q
. ? 2 E J $2[1M $ ' ' $' 1 ' . # '
'# $ ' $<$ '$ J1 ' '2 '#$I ' $.J2 2 '
& (' ' . M$) 1
' ; ' 0)6),7 ' ' ' M' . ' 12Q)
E.$ M_ ' , ' 22 ' $ I1? ' ! ' < ' .
J $' 1 '2 ' _ .$ # . ' ' C$,2 #$42 ' ; .J '
' :E1 $42 ' 2 J 1 @ ' ' 1 - ' 1 # " '
'P' $ 2 ' ; J 2 'M.M' . . $ $ 1MM. '
J ' ? : 22 ' . $' $ ' 2 2 P J$ 2
'C 1 $' . '2 ' ' 'Ke M' . ' [1121<$ '
4 ' . ' 1 ' .: M $? ' ' 4 ' . ' 21
'# $ ' :- / '
; (_ G ' 0!)6) 1)4:7 ' ,0 " J $,$J ' .
J '41 , ' 1 ' . : ' < ' 1M4 j ' . ' I$1 $M '
D1) $. [M 2 12 1 '4$. 'M '1M4
1 ' 2 ' < . 'I1 ' 1$' Q$ ' . :E4 1M4
K (' '3 'T' " E1MM ' JE JE [2 ' : # $ $1 '
. ' I1 ' J $M ' . ' 2 ' < . ' $M # .<1 < '
. $ [)I1 ' . . 2 ' 1 ' I1' 1 # 'Q1'
E J 1M4 2 ' I$' . '44 ' ' ' 1$ ' Q '
1 '2 ' I$' . ' E1MM ' ' # ! - ' 5 - 4'
" ' # / ' ' .$' ? 'CQ E <1 '$MM12 ' '
'E.J 1M4 ' 1 '2 ' M J$ ' . ' 2 ' . ')
J1 I ' . 'J ' . $ ' E41 4M' UJ 2 $. ' J ' . '
:EQ 1 . $ J ' ? $ 1 I ' ? :$2 'J1 '2 ' , .)
J1 .$. ' " ' - (' & ! ' 8 / &)'
/!# 9' 'K' O$< ' J ,, $1 ' . ' <E ?

; 5' 8 <4B B :9 <4B 8 <B4E 258 ".=2 :9 89.*
.: ; G2 25J2 3:932 + ' 32BB ' :9 JB:88 8 =2. 3: ; G2
'? ' % ' ' B <+ 8 532B 2' : ; ; 253 E2
+ '8 534 42 :++ :5 ' E:98 8 E2M 8 ' @2 ; &R 532B2882
+ R' ' <29 4&=: : ; 28 .: ; ; 2 +9 P @2 2B 8 952 =2'
. 3: ; G2 42 8:38 <:9B 8 9E2B 95 B=9 ; 3 8 ; 2 " 95
=: : ; ; 2 ; G+2 ' 2 3' , & # ! @K' .: 3:GB2 C N
' D A :J4B 42 A B E .253 QE:R' G'
23 <: . G:29 'QE:R' 5 G
' ; G X 0.)6) 1)4.)1 7 ' ' P'
82<3 G ; 2 M1$' . ' 3G25 258 ? - ! ' C ' "% ' Q
B' ' 1. ' $2 . Q$ ' 2 ' M$ ' . ' J 2 . $ ' 12QM'
$? ' 2 J1 1 . $' ! $' . ' $2 ' ' . : 1
' b AW:Q N: XE +2 ; : 8 :9 :5 8 .B 3
+28 =4: 3: ; G28
j # ('Q4*\ *3:5*83* / > ' ' 2B ; 2
4& B.= 32.39B2' :B3 ?92 44 +:2 ' .253 .:+:5528' +
82 4 8 3 < B3 .9+ GB2 ; 253 49 JB 54 <:B3 ?92 49
3=2 3B2 42 : ; <22 " : ; 2' D
'T A A4E .253 23 VB3 S:2 .:+:552
'# # 'Q=G*.=&/ 6' ' 8<G22 42 B 42++2 ?9'
J B5 3 +28 .4348 4&952 .= BB2332
' 2 ; 4 ; 2 ?92 & (
' :9 # '<B4 A2 49 5:9R2 9 8R8*
3G ; 2 ; 43B ?92 ?9 '8 J5 2 .253 23 283 952 .:53B .K
3 :5 5..BB2.32 49 JB2.' A E E .253
'QG*\3 *B&/ ' ' ! 289B2 JB B2 4&95 '
89<2B . 2 42 3: : ' B28
'K (' <B4 A2 23 #
' # 'QG*\3 *B4/ E' ' ! 289B2B " =2.3 B2
$ 'QG*\3 *\&/ " ; ' 2B ; 2 42 ; 442. 52'
$9' .:589 ; 2' GRB2 =2.3 ?92 GEB2 :B4 5 B2 ; 253
.:53 592 E2.' 428 2A .2BG 3 :58 +2 8: B :9 B4 ; B
32532 23 .. : ; < J542 4& ; JB 882 ; 253 <B:JB288'
- ' # AR]8' & +925.2 42 8 5J 42 93 9A
G2.3 ?928 23 <=3= 8 ?928 'E ; 3:' ' 2RB2
=2.3 ?92 89BR 253 882M 8:9R253 9A <+ 28 23 ; + K
4 28 49 <:9+ ; :5 'R ;
' "U ' R g' 42 R8 E E: B 325 B' 58
=2.3 ?92 &= E 253 42 &28<B 3 B942
'QG*\3 *M 2/ ' ' 2B ; 2 42 ; 442. 52'
3 3 42 .29A ?9 ' :53 + ' GEB2 =2.3 ?92
' :R' 6 <
3' # 'QG*\3:/ 8' ; ' GB4E 3 :5 989.++2 4&=2.*
3:JB ; ; 2' B: 8 G2.3:8 42 E 542
B ' :R' 6 7
' # 'QG*\3:*4*4B 2/ ' ' 2B ; 2 42
; 54B +:J 2' 3 3 4&95 .B 83 + G2.+:44B ?92
3' # # $ 'QG*\3:*4*4B *\&/ " ; ' 2B ; 2
42 $ 54B +:J 3' $9' '8 A .28
' " '] % 8 A 23 JJ< .2
! G+ 'QG*\3:*JB * ; &/ ' ' : 48 42
3: :' JB ; ; 28 4 58 +2 8R83G ; 2 ; 43B ?92
- (! 'K ('!7' & ! '/#
'QG*\3:*+ *3B&/ 8' ' ! 289B2 42.253
+ 3B28 4 58 +2 8R83G ; 2 ; 43B ?92
'K (' :9 & ! '23 #
3' 6 'QG*\3:* ; G*3B&/ ' ' ! 289B2 42
+:5J929B 4J +2 " ' ; G3B28
'K (' :9 & ! '23 #
3' # ! $ 'QG*\3:* ; 4*3B *\&/ " ; ' $9'
<< B3 253 " G2.3: ; G3B2' :32 \ +: ; 43B ?92 23 =2.*
3: ; 43B ??2
'QG*\3:*83G*B&/ ' ' ! 289B2 42
3: :' 83GB28*
- ' @8R+ ' K" (' :9 & (! '23 #
' 3' # ' 'Q4*44*B *84 842/ " ; ' 2B ; 2
042 G 3 _ ? 2 $9 'B2882 ; G+2 9 + 2BB2 ' @ ' ' 28
=444B 2428 ; ++2 42 <+ 5328 4:53 +2 + 2BB2 283 +2 3R<2
' ? ' 3' & " # ' + 2BB2 QE:R 22 ; :3/
3' ? ,* - , 'Q2*44*B * :B* ; &/ " ; ' 5
:B ; 2 42 + 2BB2
- ' (! ' 3' & " # ' + 2BB2 23 !#
3' 6 , * ! 'Q4*44*B *5&+ ' ' 2B ; 2 42 .= ; +2'
92 J: ; ; :6B48 529A 4 3 ; <B:<B2 ; 253 J: ; ; 2 42
+ 2BB2 ?9 ' 44.:9+2 49 3B:5.' 428 E 29A + 2BB28
' 3' & " # ' + 2BB2 QE:R' G
'# e M 'QGG4*E * 2/ ' ' 2B ; 2 42 G:3 5 *
?3 2' 25B2 42 34B4G 53= .428 .:5325 53 G24X J 2
G +84 ; GB2 ?9 ' <:B32 +2 5: ; ' 42 G: 8 " + G B ?92 "
3' 23 " ' + ' > : +?92 7 6 'LH : ; ' 4&95
J25B2 42 ; :98828
-6 (! 'K "Q / 'G:3 5 832 +2 ; 54 49 8 4.+2
42B5 2B
'? U # , 'Q4*4 *M *B42/ ' ' ' 2B ; 2 42
G:3 5 ?92' B G9 428 4J9 ; 529828 < < + :9 2428
4 58 + ?92+2 82 3B:9E2 +2 8 5 : 5
_ 'K"" #! -
j # ('Q4*4 *M *B:5/ :9 # (!'
Q4*4 *M *B:33 / ' ' 2B ; 2 42 G:3 5 M2' 25B2
42 + ' ; ++2 428 < < + :5 .428 ?9 ' .:53 253 G2 9*
.:9< 4&28<G228
' D#%9VB <:E 8 5 : 5

'#cN ! ' QN*@N*; :*5 2/0 ' 9<B ; 332
?9' << B325 3 ' 95'<29<+2 4 8+2' 4'B 3 :58 42
& 53 ?9 3'JB2.?92' &=4J' ; :5 2 << B325 3<B ; *
3E2; 253 ' < B3 'LL '8& <<+ ?92 988' 9M 3 38
; :42 ; 28' & 93B .G2 23+' B9882 2 4 8<93253 &G4*
J4 ; :5 2 42 & 2; J52
-' !' T# 3 3:E D D 44B B4' 49 E2BG2 +E3 2 0
4 B J2B0 . :549 B2
3'6 7 *"$ 'Q'*@"* * *\&/06 6' 8. <+2 4&# *
J'8 80 <G+:8:<=2 .RB45 +?920 ?9' 2582 J5 3 '
+2A 54B 2 E2B8 3:' E 53 >4898* =B 83 23 ?9' <*
<B:9E 3+2 89 . 42
'Q *@*B&/06'[D' &GB2428 ! =: ; 23 580 ?9'
. : ; ; 25.2 ' +&N<:?92 : \' ! =: ; 23 8&25 9 3 42 +'
!2.?92' '<B2 ; B2 5542 42 &= J B2 . :BB28<:54
'& 5'M '42 > 898* GB 83' '8' 9 32 . : ; ; 25@'+'
; 2982 = J B20 ' 0 3
' B G20 6 ' 9 32
$ 'Q *49*\&/0 ' 'LLZb' : ;' 4&952 ; *
+ .2 42 J258 42 < 24' ?9 0 : . . 9< 53 ?92+?928 4 8K
3B .38 42 +' # :5JB 20 E: 8 58 42 +' B:53 B20 283
.= BJ 2 42 +28 4 254B2' ' 94B 3 '3:93 GB E2B
<:9B ; 2 E: B0 2 8 GB2 59 42 &=2 49?92 3 &2959*
?920 ' 'C 'V 'LL 0 : ; 283 ?92 E 39 '
+'=:5JB: 82' 2 B:' 3 53 5 :B ; '?9& 9 ; <B 8 428
:B4:55 5.28 ?9' 4 254253 '3:98 4: ; 283 ?928 42
<:B32B 9.9528 B ; 280 < 280 5528 0 23.' :5 25
E: 3 3:98 +28@:9B8 42BB B2 +28 E: 39B280 :9 '< 240
. :5598 8:98 +2 5: ;' 42 .= 8829B80 =2 49?9280 <:B*
3 53 95 JB 54 . :932 9 42 .= 882 :9 8 GB2 <2549 '
+29B . 3 P ?92 4& 93B28 :53 428 < 9+23328 89B+29B8
= G 380 .2 ?9'283+' ; B?92 4 83 5.3 E2 42 & 3 3 ; *
+3 B2 0 C ' , 'V'@: 5' CC7
-'# 'S 68' 28 = 4:9?928 0 ?9'8:53 J258 42
< 24 42 +' B: . 20 2 ; <:B32B253 < B 89B<B 82 +88 0
:& 9 ' '5 0 W
' .G ?92 :9 G:= ; 20 & "76' :B ; 2
8+ E2 49 E 29A =:5JB: 8 6, '8 J5 53 95 5W
3 88 50 95 J B42 '< 24' D
#' :9 # 'QG 5/0 6' ; + B2 ?9'
8&2 ; <+: 2 25 J9 82 4& 532BB:J 3 :50 23 8 J5 2 '
5&283*.2 < 8^ ?9&25 4 328*E:98^ :98 B:58 .2 8: B0
=2 5^ 2+' 283 G 25 .B 30 =2 5^ 3 ; 28 +233B28
+28 8*39 <:B3 28 '+'<:8320 =2 ;^ : (0 2 S
, ' & ' ' 2B3 988' '2A<B ; 2B & 3:552 ; 253'
' 2B3 25 5' '2A<B ; 2B +2 GB9 3 ?9' . . : ; < J52
.= ?92 2 :B3 42 :9EB 2B 4 58 <+98 29B8 <B: 28K
8 :58
-' !' 3' '?9' E 3 +2 ; ; 2 8258 23
?9' 82 <B:5:5? 3 <293* 3B2 42 ; ; 2 ' S
' . '-'. 6 '54B
'8.' 0 '"NC
? 'Q * P &8 82 + 2 ' ' *+ *M + 283 ; :B3P ?92+K
?928 <2B8:5528 :53 253254B2 &8 ' *+ 8&P .2332 <B:*
5:5. 3 :5 5&283 < 8 'B2. : ; 542BP '5& 3 530
4 58 .2 ; :30 ?92 & 4@2.3' '?9'52 82 <B:5:5.2
@ ; 8+ 8&/0 5+23@D? '2A<B ; 2+ '4:9+29B' +:B8 +2
B:' 4&+8B + 4 3' ++ + 80 G + 80 = + 8' +2 2 J529B
5:98 ' .'@: 538 3B< 8 B: 8 2582 ; G+2 <:9B 5:98 + *
EB2B 253B2 +28 ; 58 42 ! : G0 ' G+20 < 'E0
; 0 " ' +:B8 H25 B2.2E 53 +2 8 53 E 3 ?921 + 82
8:9E 53 428 BB E B25.28 4:530 G + 8& :5 4 8=:5:B2
.2 4 E 5 ; R83 B20 '=, ' ' ' ' , 1 ' <B 8
& J 8+ 80 \ +:8' # 8 <B 8 & 33+ 0 #:+ 2 '
" 'E5' LL 9G83 53 E2 ; 253' $92 .23 G + 8 '42
<2 52 '8:B3 B3 '0 4' E0 F' B +3B280 .28 2 538
= + 8 52 8 9B 253 ; & G982B0 5' 3 ,/ 'E0 F' ' 3
4&952 ; :9B 532 E: A 29A JB 548 G + 80 +28 GB 8 25
.B: A0 8. 0 H '/' 5 @:9B 82 < 882 23 429A
8 58 4& 93B2 5:9BB 39B2 $92 828 <B: :548 8:9< B80
?92 828 B ?92538 = + 80 ' '
-'# 0 A ; 6 8' #2+ 8' 82 598 H59+@ 82 4: 3 8 9*
E2B 4:+ 58 H25 ++ 53 '+'.B: 8 42I' :52 4: 3 < B
4B: 3 ; ' ; 2B 32 283B2 JB 58' B <+98 4:+ 58 52 8&25
< B3598 H59+@ 42 B 5.20 < '#: ; 5.2B:0 <'7N'
+ 8' ?92+ 4 ; J22 . B + :5?928 <9 8 52 .G2*
E 9.= '?92 .2+2 : 80 6' (' 2+ 8@ :B5&:82*
8 *@2 ; 8 42E 53 +9' +2B0 2B2832 .AAA A' LLAE 6 8'>2
3B28892 42 JB 53 = 5P M '80+28 E2+28 HE: +28I 8253
B: ; <9280 ' BR0 E0 "8
-' !'>e0 532 @2.3 :50 23 & 4@2.3 '+ 8 QE:R'
.2 ; :3/0 ?9' E 3 +2 8258 42 ; +=29B29A0 +J2P
<B:E25?' + 80 '5.' 3+' '
'# 'Q +*\:*+:*@2/0 ' ' 2B ; 2 42 .= *
B9BJ 2' B 3 '89B +28 9+. B28
-' (!'D SA:^019+. B2 Q+2 ; ; 2 ?92+2 + 3 5 W *
.338/0 23S: (:30 3B 32
3'# 'Q +*\N*M&/0 ' ' 2B ; 2 42 ; 42. 52'
+. B 3 :5
' 'D SA:X3^0 9+. B 3 :5
j'# $ 'Q +*\3*\&/0 5' 2B ; 2 42 ; 42*
2 52 R5:5R ; 2 4& 33B .3 0 4& < 8< 83 ?92
'#+&'' -#. /0'.' , # I& $

'Q +*8 *4B *:5/0W'X 2B ; 2 42 .= 6
; 2' +. B 3 :5 89<2B . 2++2 42 +' . ; 2
'' ' # 1I& .M $,'.' #1J 2J
0 'Q=2*+ 0 + 2/0 < B30 " ' 42 = 2B' 2
E 882 9 = +' ; 3 25 < 552
V6 'Q *+ *5&/0 ' ' LL Zb' : ;' 42 +' 2 ; ; 2
42 ! 5 + 8 0 25+2E 2 < B B "?9' 93 +'. 982 42 +'
J92BB2 42 B: 20 23 4:53 +'G2 93' J + 3 .2++2 428
4228828' +2 93 +' 829+2 42 8:5 82A20 < B ; '3 53
4&25 538 42 >9< 32B0 4:53 .2 4 29' 4 J5 '82 42.+ K
B2B +2 < B2P ?92+?92 3254B2882 ?9& + 243 <:9B +2 +8
4& +. ; 520 # + 52 +9' 93 25. :B2 <+98 .= B2P 230
4 58 +28 4:58 ?9& + +29B 30 +28 <+98 <B . 29828 *
E29B8 9B253 4& G:B4 <:9B 8 ' ++2P . B #2B.9+2 293
25 < B3 J2 +' :B.2 '?9'B 25 52 B 8 8320 # + 52 +'
G2 93' ?9'3B : ; <=2 42 +' :B.2 ; 20 ' ' '
D ! / 'K A - 'LL ' 2B3 '4 8 J52B 952 G2 Y3 '?9'
33 B2 +28 E229A 4095 JB 54 5: ; GB2 42 <B 3254 538'
'J253 ?9' <:B32 .B 32 9 8<2.3 .+2 H+2 . : ; G 3 428
429A . :?8I .. 9B 3P +98 4&952 # + 52 9 G2 9
<+9 ; J2 93 +2 <B A 49 E 5?929B ' '% '0 '
-"' " ' 6 : ; ' 4&952 28< .2 42 < < ++:50 42 . :9*
+29EB2 23 42 ; 9B 52' L B 23 '42 35 <2' LL "6 : ;'
4:55 ' 5. 2552 ; 253 '952 E B 3 ' 42 29 53*
+; 2' 83:B 23 :++9A0 25 ; 3 :B: :J :0 283 95
; 3 :B2 J5 0 ?9' < B 3 ?923?92 : 8 25 ; 2B 8& 36
3 .=2B ' 95 428 . 3 8 49 E 4882 90 8:98+' :B ; 2
4&9520 42 429A0 :9 ; ; 2 42 3B: 8 :9 ?9 3B2 G:9+28
42 29P +:B8?9&:5 &25 E: 3?9&9520 :=' & <<2+2 @498
<B:<B2 ; 253# + 520 F '4 58
' '6cS+E50 ?92 ! >3 ! 332B ' 4253 + 2
E22+'@ # "'E 4 ?920 +' 4 2882 42 & 5B:B20 23
?92 9B3 8 9 . :53B B2 B <<B:2G2 42 S EE/0
3:B.=2
3'# 'Q *+ *5 2/0 ' ' 23B ; 2 42 G:3 5 ?92'
25B2 42 <+ 5328 42 +' ; ++2 428 . : ; <:8 28 :4
&: 3 4 83 5J92 &= + 5 2 4& 9=\ ; 520 <+ 532 4& + *
B ?920 & - 7 ' 7 7 - '+
' 3'& - 7 '"7 JB2.' S E3:E0 58'4 32
< B. '?920 33 E 53 +28 B2.8 0 2 2 3 35 2428<+29B8
4&#2 520
'; P,$X X '0)2) $) :7& ' ' M'. 'J4$M$'
X1M? $ ' .1 ' $ 2$
3' 'Q *+ *<:*B/0 8' ' 2B ; 2 4& 53 ?9 3 '
! .= 52 25 :B ; 2 42 3:9B ?9'8&2 ; <+:R 3 9'8 *
J28 428 E +28
-' (!'D S 3:S .0 42 S8 R0 <B254B20 23 3:*
S0&0 E +2
#' + Q= *+ ' '8R++ G2 &'@<B254 5' . . 253
JB E2 ?9 54+'8R++ G2 ?9'89 3 283 ; 92332'@2 = +2P
2S.2<3 ' 9 939B 23 9 . :54 3 :552+'@2 G +2B 0@2
= +2B 8/0 5' ' L]' 2B ; 2 42 ; B 52' <<2+2B 95
5 E B2 E2.' 5 <:B32*E: A IL 6 B 2A3258 :50 <K
<2+2B 4:' :B3 +: 5'Q! *5 ?48 = +'4&952 428 <:B328 42
+'E +20 # > '@'D6 < B3' LL 6 2 = 2B0
2' # ' & <<2+2B & >U Y +Q '*'25 ; 2B :9 42 +: 5'
28 ; B 58 428 42?Y' ; 253882 G + 253' 582'
=2+ 30 :5 82 8 +9 3 DP
'6 ' B' # 942+ 52 0 =:+ = 90 ?9'5:98
G2++2^ ; ' ! :B ; 0 & 0 1& -'#! '4 <8'
' <B:<B2 ; 253 8 +92BP +2 8258 <B+ ; +3 '42 !'& '283
8:9= 32B +'8 53 0 & &'8 53 P 3+2 ; '6 '8 5*
28B:2=280 BBA' .B 3 & 7 #'4 3
3'# 'Q= *+24/0 8' ' 8< .2 42 =2B:5 42
53* : ; 5J92
#'Q *+ * 5*/0 ' ' 2B ; 2 42 G:3 K
5 ?92' 25B2 42 <+ 5328 42 +' ; ++2 428 . : ; <:K
8 28' '# + 53=2 39G B29A0 +2 3:< 5 ; G:9B
'' ' 'V ; $1& 12 $2 '.I 1J ,2
? *#! "? 'Q *+ * 5*3 * ; &/0 ' 2B ; 2 42
G:3 5 ?92' 25B2 42 <+ 5328 Q ; D++2 428 . 83 5 28/
4:53 + '<+98 . :5592 <:B32 428 +:9B8 4&95@ 952 +9 *
8 53 4 8<:8 28 25 <0 23 283 4 32 E9+J B2 ; 253 G2BG2
4&:B0 GR8 :<2 428 J B J928
-' (!'@/$? "6
$ 'Q *+* 6\&/0 ";' LL 6 2B ; 2 4& 83B:*
5: ; 2' 2E2B= + ?920 . :9. =2B = + ?920 82 4 8253
4&95 83B2 ?9'82 + E2 :9 ?9'82 2:9.G2 9 ; ; : 253
:90 +2 8:+2 + ++ 53 82 +2E2B :9 E25 53 42 82 . :9K
.=2B0 + =&R '< 8 882M 42 +9 ; =B2 <:9B ? 2 83B2
25 ?9283 :5 52 8: 3 < 8 8 G+2' LH 6@' ' ' 2B ; 2
4& 53 ?9 3 'JB2.?92'328= + ?9280 3225 &=:5529B
49 8:+2 +
-' (!'T#S3: .0 8:+2 +'&# S3:P 283 952 93B2 :B ; 2
?92 +28 =2++ 5 8328 B2J B4253 .$; ; 2 ?9 (+ 53 \'
(' .B 3:8 _N2S :W* 9B3 58 'B <<B: .= '.28
:B ; 28 49 ; :3 8 G 5 Q '8:+2 +0 B 49 " 58.B 3
98=0 GB +2B0 \' ?9: '3 255253 7#!# ' 9B:B20 23 +2
5: ;'<B:<B2 ?7#" 7 ' ! 8.2332 3R ; :+:J 2 52 B254
. : ; <32 5' 42 &28<B 3 B 420 5' 42 .2 ?92 42E 25*
5253 &8 42 !7 '23 8=' 42 7 &3 + E 93 4:52 ; 29S
89 EB2 & E 8 42 25 2R0 ?9' E: 3 4 58 @. S3: .0

$. - 1R& 2 ' 1 '2 & 2' 0/(2'-% " # '
,1 M '. I 21 ' . ' ?# ' 12 $2
3'# $! 'Q *++* *\2* ; 5/0 "5' &952
; 5 B2 = + ?92
'Q *+ * *836/0 ' ' ' 2B ; 2 4& 53 *
.< 3 ' : ;' ?92 <:B3 253 \' 3= 528 +28 ; 2 ; GB28
4&95 3B G95 + 5: ; GB29 0 4:53 +28 882 ; G+ 28 . : ; *
; 25. +253 9 +2E2B 49 8:+2 +
' 'T#S :B .0 42 S ++:3: 0 8&2A<:82B 9 8:K
+2 + 23 3B2@9J2P S3 D 0 <+ .2 :9 J +2B 2 : '82 32*
5 3 +2 3B G95 +0 42 S : .0 8:+2 +
'Q *+ *8&/0 ' ' @J52 3B . 2 25 :B ; 2
42 E 8 93:9B 4&95 .R+ 54B2' 'R' '4 58 :BJ 52
42 :9+2 95 B3 .2 G 25 8258 G+20 2&283 ; 2 G2+ .2
\'3:9B8 5 B .3929A0 ? '4 32B ; 52 +28 :549+ 3 :58
42 B E2B8 952 . :?9 ++2 :B ; 2 25 253:55:B 0
'0& ! ! & '1! ' 7# #'K (- =7 '
" ' - 'LL 8.' 2B 25 G + .20 28. +2B'<:B:E*:8 '42
; B.=28 J B:55 28 33 .= 28 +28 9528 89B 28 9*
3B28 93:9B 4&+ ; 2 . :+:552 42 =: 8 :9 42 <2BB2
' ' 23 328 E:+9328 ?9'253B25+ 4 58 +' . : ; <:8 3 :5
49 .= < 32 9 . :B 53= 25'LH 6 2B ; 2 42 ; . 5 ?92'
:93 << B2 3 25 :B ; 2 42 E 8 :9 42 3 B2*G:9.=:5
'# + . '<B:<9+8 E20 :9 0 8 ; <+2 ; 2530 = + .20 << *
B2 + ?9' B2 ; <+ .2 2.' E 53 J2 +28 B:928 \' 9G28
4 58 +28 G 32 9A \' E <29B' 2 <:+ :5 '283 +2
<B2 ; 2B G\3 ; 253 B 5B 8 9?92+ 283 <<+ ?9' +2
5<9E2 9 8R83 ; 2 42 <B:<9+8 :5 . :58 83253 25 952
E 8 :5 = + .2 ; 92 < B + 'E <29B0 23 ?9 0 <+ . 2 \'
& BB B2 23 ; ; 2BJ 20 3:9 ; 2 4 58 &2 9 E2.' 952
32882 . :58 4 B G+20 42 ; = B2 \' B2 +2B 9 5 K
E B2 4 A \' :5M2 5.2948 25 32 ; <8 E:B G+2 ' .23
=: ; ; 2 3 3 8 ; <+2 ; 253 9E J20 & 5E25329B 428
= + .28P 9E J20 ?9 0 42<9 83B2 M2 580 3B E +2
23 +9332 ' $ (' N "" ' 'H7 '@9+'
'"' 25B2 42 . :?9+ J28 25 :B ; 2 42 8< B +8P
.2 8:53 +28 ; :+98?928 J 83 B:<:428 <9+ ; :5 8 \' . :*
?9@++20 E9+J B2 ; 253 28. BJ:38' LL N6 : ;' Q<&:5
4:552 \'+' B 542 9 82< B.2?9&:5'+' E: 33:9@:9B8
3:9B52B 93:9B 49 <4+2 4 58 95 <23 3 .2B.+2
-'# 'S 68 &283 & E 53*E254 5J29B H. :5K
832++ 3 :5I' 2 +9 ; 2B2 < B2 +2 23 < B2 +2 JB 5429B
$92 .2++2 ?9'82 E: 3 < B +'5: B2 . BB 2B8 9B +'
?9292 4&=2+ .2 28< 54 53 8'+9 ; 2B2P 2832 28*
3: ++2 283 B4 532 ' ' '0! ' 3' 0
< '"C7
-' (!'6 S3%0 42 S 2283E0 25B:9+2B0 <B ; 3'
S990 3:9B52B0 . 9BG2BP &28<B 3 4:9A 89< '82 95
4 ' ; ; '5 !'4&:\'+2B <<B: .=2 ; 253 5 39B22 E22
+2 + 3 5 5! 5!' 13 92 + #'25E2+:<<2B
' ' 0 'Q * *8 0 8 2/0 "E' 2B ; 2 42 . :5*
.=R+ :+:J 2' $9'283 :53:9B5 '25 8< B +8
3' 'Q *+ *8 50 8 *5&/0 4[
2B ; 8 4& 5 3: ; 2' $9' 'B <<:B3 \' &= + A
'# + + '0)2$) $ 7& ' ' M'. '[1121<$'
; 12 ? '? $4 4$ ' ('E 2$J
0 'Q *+ *8 50 *5&/0' "E' 2B ; 2 4& K
5 3: ; 2' $9'283 25 :B ; 2 42 EB ++2 :9 42 8< B2'
B3 B28 = + . 5280 <23 328 B 5J28 <<254928 9A B*
3 B :+28 49 3 889 B2.3 +2
3'6 8*! 'Q *+ *8 *56/0 ' ' ! 9. + J2 <B:E25 53
428+ ; . :58
-' (!'D S3^0 + ; . :5
'# 3 'Q *+ *8 * /0 ' ' :?9 ++2 :88 +2 39B*
G 5 2 25 E 8
3'# 0 'Q2*+ *\ :* *4 +0 4 * &/0 "9M
2B ; 2 4& 5 3: ; 2' 8<:8 '25 = + .2' J 528 = + *
. : 4 9A
('Q *+ *\ :* *4&/0 :4[' ++6 2B ; 2 4 *
4 .3 ?92' $9' B2882 ; G+2 \' 952 = + .2' L 2B ; 2 4:'
J : ; 3B 2' B G:+2 = + . : 420 . :9BG2 ?92 <B:49 '
+'< B G:+2 :B4 5 B20 ?9 54 :525B:9+2 8:5 A2 9K
3:9B 42 +' . B. :5 B25.2 4&95 .2B.+2 # 2B ; 2 4& K
5 3: ; 2' R5:5R ; 2 4&= + . : 434' LL 6 ' 5
= + . :!320 89B .2 25J254B 2 < B 952 4B: 38 =:B*
M:53 +2 ?9'8& <<9 2 . :583\ ; ; 253 89B 952 G + .2 23
8 B & A2 E2B3 . + 49 .R+ 54B2 4B: 3 :\' 283 3B .28
.2332 . :9BG2
' 'K '23 a3 :P0 :B ; 2
'Q *+ *\:5/0 ' '7 0 ! :53 J92 42 :*
3 20 E: 8 52 49 B5 88220 23 ; 2982 < B ; '+28 <: *
3280 ?9'+'B2J B4 253 . : ; ; 2 95 428 8 [:9B8 :B4 *
5 B28 4& <2++:5 23 428 ! 9828 LL J' 2 8: ; ; 230 +2
= 93 42 &# + 3A\50 + 'JB 542P \' = 932< : 8 2' 9B +2
= 93 # +@. :5 +29B E2 58 ; <B 8 2 93 3:9@:9B8 428
529 '8:29B8 +' G+2 23 +'B 8 20 ' 8.0 :9 B:3
'' (& 9 = 8 42 +&# '2250 !> "'95 ; 9E 8<: 32
' '<: 8 2 25 J 5 B ' :55 882M*E:98 89B &# + * D
. :5 &952 23 93B2 = 2 <28 429A '5B28 42 . :*
; 4 2I^ &952 283 2G 988 2 $2 . : ; ?92 + B ; :R 53I
23 & 93B:'5:5 H+2 . : ; ?92 :B4 5 B210 ! 8 :&283 +'
<+98 @: 20 I ' /# ' !-#' + (&

$-

[illegible]

[illegible]

[illegible]

3' # ! # 3 ' Q * ; 5*3 :*+ :*@+*8 /0 '
; ' 39B + 832 ?9 ' 8: . .9<2 4=2+ ; ; 3=:+ :J 2 ' LL 5'
Q+3 988 0 G 25 ?92 <+98 B B2 ; 2530 =2+ ; 53G :+ :J92
'#' _ ' Q)*+ :*8G*B 0 6' 2B ; 8 42 M: :+ :*
J 2' ' :53 +28 5325528 8253 25 :B ; 2 42 .+ :9 ' LL@ '
28 = + : . 2B280 ; +2 42 . :+2 :<32B28
0 6, (! ' .+ :90 23 A2< P0 . : ; 20
'# ' Q2*+ :*4/0 6' J , ' 3 253 428 ; B 8'
GEB28 =4+ :4280 2EB28 ?9 ' B2J5253 4 58 +28 . :5*
3B428 ; B2. J29828
' ' D UQ ^0 ; B4. J29A0 42 S :30 ; B 8'
%' # + # .$ ' Q4*+ :*< *3G*\/0 8' ; ' <
2B ; 2 42 M: :+ :J 2' ; +2 42 8 5J28 ?9 ' '+ '?9292
<B25 532
-' (! ' D /23E0 <B254B20 23 ' 8 5J2'
' Q4* N*M/0 8' ' ! :3 ; 44 . + 4 :554 < B+ *
. 44 ; 20 ; 8 ?9 ' 283 G BG B2 23 4 : 3 43B2 24 .4P +
52A 8+2 < 8 4 58 +2 + 5J J2 ; 44 . +P + 283 89<< :84
8 J5 28 B25E2B82 ; 253 428 < 9< 4B28 E2.' . :5E9+K
8 :5 428 ; 98.+28 42 :2 +P ; 8 S. ;P 5283 < 8
JB2.0 23 + 94B 3 4 B2 ++ :820 4+ A5^P ++ :82 4 +*
+29B8 5283 < 8 98 34
%' # 0 + ' Q ! *E4*8 * 50 8 *4*5/0 '
' 23 ' 2 4 3 25 < :28 2 < :9B +28 9 8828 ' 2 @2952
#2+E43 250 8 58 . 8?92 23 8 58 B ; 9B20 <9 84 < B
+2 8 5J ?9 ' B2549 8 ' G+2889B20 ' /
' '& 6' 28 . ; < J528 =2+E23 G5528 > <*
<B2548 ?925 328 4 8. :9B880 9 <29<+2 =2+E43 25 2 ; *
GB 88 53 + '?92B2+20 9 GB J928 + ' E :9B 42 . : ; *
G 33B2 < :9B 2+20 'K 5 '
' ' / ' 5. 25 5 : ;'+ 3 5 42 + ' 9 882'
$ ' Q2+*E4*3 *\/0 6' $9 ' << B3 253\'+
5 3 :5 89 882' 0 +2 <29<+2 882 ; G+4 4 58 +280 :9B8
8 :+2552+80 2 + '+ G2B34 8 532 253 :9B2 +28 932+8P
58 95 :B4B2 8 .B4 +28 3B G98 =2+E23 ?928 R' B2*
J+2530 42 . :5.2B30 +28 B28 <9G+ ?9280
/ ' ' ' :B<8 :9 + J92 =2+E43 ?920 + ' . :53444B *
3 :5 42 3 :58 +28 . 53 :58 89 8828 ' LL 2<9G+ ?92 =2+*
E43 ?920 .2+2 ?9 ' 93 <B : .+ ; 42 25 C7F 23 ?92
:B ; 4B253 + '<+9< B3 428 . 53 :58 9 8828
' :R' 9#
b* ? @+ ' Q2+*E4*3 *8 ; /0 ' ' : .93 :5
25 98 J2 .=2M +28 9 8828 42 + ' 9 882 B 5? 82
-' (! ' :R' 9#
'# ' Q 2 *E *4 5/0 ' ' ! 2 ; GB2 4952
82.32 .=B43 2552 ?9 ' <258 3 ?92 ! B 2 E 3 29
428 25 538 42 8 53 >:82<=
' ' / , ' 9329B 42 .2332 82.320 ; 25K
3 :524 < B < <G 52 23 8 53 9J983 5
3'# S ' Q ! *\8 *5/0 8' ' : ;' 5. 25 42 + '. BK
+ 52 : . 5 +20 ' 1 * , ' ! ' . : ; < :8428
' ' D /0^ EBL
' ! ' Q=2 ; /0 6' #]' 5 825 82B3 < :9B <*"
<2+2B' #2 ; 0 =2 ; 0 E252M Q ' LL ' 5 825 82 3 988'
< :9B 532BB :J2B0 8*39' 2 B :532B 2 42 ; 8833B2B
?92 39 5 8 B 2 D 9^ =2 ; Z B4< :5480 < B+20 , !'
0 32 : .=* ' 2 9*<2B20 58' @2 .B : 8 ?92 @2
89 8 J253 +9 ; ; 26P #2 ; ^ ' ' C'
, ' ' 3' 5 ; 2 < B+ 30 @2 5253254 8 < 8P
=25 ' ?9 : 0] ?92 E :9+2M*E :98^ E : +\' 3 :93 .2 ?9 :5
< :9E 3 3 B2BQ+2 ; : 0 9 1' Wb < B3'
0 ' B6 5 20 ; <+ : 2 < :9B 82 42G BB 882B + ' J :BJ2' 0
+ ' =2 ; 0 =2 ; 0 4. :932 E2.' 8 : 50 @2 32 <B 20 '
- * ' 0 M' ; 8 ' #2 ; 0 =2 ; ' - ' E J52 '
: ' 952 ; 9E 82 28<422 42 B=9 ; 20 ") '
+ ' ' 8.' L% ' ' :5 42 3 :9882B0
8 :5 =2 ; 0 @0 33B <2 3 :930 ' '
+, ' 50 ' LL " ' #2 ; 0 =2 ; 0 82 4 3 ?92+?92 : 8
< :9B B2 . : ; <3254B20 8 58 2A<B ; 2B0 952 <25*
8420 23 89B3 :93 952 <25822 44 E :B G+2' 2332 *
; :54 283 889B4 ; 253 =2 ; 0 =2 ; 0 E2.' .2332 . : 2
?92E :98 . :55 882M0 ' % 5 :E' VNCN
3' ' # ! ' Q=2 ; /0 ' ' 2B ; 2 42 ; 442. 52'
258 3 :5 4 2 ; = BB 8 ?9 0 82 8 53 8253 B 4 58
BB 4B2*J :BJ20 < :B32 ' @B2 952 2A< ; 3 :5 . :9B38
23 B 9?920 23 ?9 ' 283 95 428 8R ; <34 ; 28 B4?92538
42 5J 52 J+ 549+2982
! ' # ! ' # ! ' <B4 A280 8 *
J5 53 8 5J0 23 E25 53 49 J 2.' +J 0 J45' < *
h0 8 5J' :B3= :JB <=2 42 .2 <B2 A2 E B 2P :5
4.B 3 < B : 8 < B 3 ; 8 + ' B2J 2 283 42 B2<B2K
82532B ' JB2.' < B 2 8 ; <+2 25 B 5? 8
3' # ! # + ' Q4* ; *\B :* *5/0 6' ' R :*
5R ; 2 4=4 ; :8 52
! ! ! ' Q4* ; *4B :* ; :*B54*3 /0 '
' 2B ; 2 42 <=R8 ?92 ' 583B9 ; 253 5E2534 < :9B 2E *
+92B + 'B < 4 34 49 8 5J 4 58 +28 JB :8 3B :5.8 B34B 2+8
' ' 1 HM< Q0 . :9B820 23 QA2 < :E0
; 289B2
3' # ! (! $ ' Q4* ; *4 *5 * ; *\/0 ' '
2B ; 2 V2 <=R8 :+ :J 2' =4 :B 2 ; 42 5 ?92 42 + '
. B.9+ 3 :5 49 8 5J 0
'# $ ' ' 4 + ,

j' # ! ' Q4* ; *J :*J=/0 " ;' 2B ; 2 42
; 442. 52' $9 ' <B :E :?92 +2 +9A ; 2583B92+ : 9+2 +9A
=4 ; :BB= :+4 +
' 'K ' 23 R4BR4.0 ?9 ' 2 ; ; 452
@* # ! ' Q4* ; * :*< 2/0 ^ ' ' 2B ; 2 42 ; 4K
42. 52' '< 5.=2 ; 253 42 8 5J V+ 58 +2 J+ :G2 42 :2 +
' ' +<4S /VQ0 4< =2=2 ; 53 42 8 5J0 39*
; 29B 8 5J9 52
3' # ! # ' Q4* ; 5* /0 ' ' 25B2 42 <+ 5328
49 . < 42 :552* 8< .B 5.20 42 + ' ; +2 428 5 B*
. 88 :+428
-' (! ' K ! ' C ! (' +29B0 58' 5 : ; ; 42
< B.2 ?9 :5 4 3 ?920 <<+ ?942 89B + '<2 90 2+2 25
3 8 :B3 B 49 8 5J
3' # ! $ ' Q4* ; *83 *3 *\/0 ' ' 2B ; 2
42 <=R8 :+ :J 2' : .3B 52 428 + : 8 4 4?9\ GB2 49
8 5J 4 58 +28 E 882 9A
' ' K ' 23 =7
3' ?# " # . - , * ' Q4* ; *3 *< :6B 2/08 ' ' 2B ; 242
; 442. 52' .=2A 2 ?9 ' < :9B Q ' 982 +2 44 93 42 8 5J
' ' K ' 23 @. :< 60 ; 5?920 42 '
<B E 3 0 23 . :<83E0 :9B5 B
' # ! ' Q4* ; *34* *5/0 86 ' 2B ; K 42
.= ; 2' ' 8 :G3259 < B .3 :5 42 ; ; : = ?92
89B =4 ; 3 52 :9 =4 ; 3 :AR+ 52
3' # ' ! ! ' Q2* ; *3 ' ; e /0 8' ' 2B ; 2 42
; 442. 52' : ; 882 ; 253 42 8 5J 2A= +4 '+ '89B .2
42 + ' ; 2 ; GB 52 ; 9?92982 42 283 : ; .
' ' K ' 23 @32 .0 E : ; 882 ; 253
' # ! S0 ' Q4* ; *32 0 32 *M/0 " ;'
2B ; 2 42 ; 442. 52' 2B ; 3 :828 =4 ; 32982 0 ; K
+ 4 28 428 E 882 9A 8 5J9 52 42 + '<2 9
' 3 6 0 33 :P0 5J
' ; ,$ A G0.)M)$).)[:7 ' ' M' . .'
M. . J$ ' ' . ' <
' " ' K ' ? ' > < ! B3.0 8 29B
3' # ! + ' Q4* ; *3 2/0 ' :' , # ' 42 <=R8 :+ :K
J 2' : ;' 4 :554 9A J+ :G9+28 :9 4 8?928 B :9J2849
8 5J
-' (! ' 9 0 <XA : .0 8 5J
! ' Q4* ; *3 *5/0 8' ' LL Z D 2B ; 242
<=R8 :+ :J 2' ' ; 3 2B2 Q@ :+ :B 532 49 8 5J' LL 0 2B ; 2
42 .= ; 2' :R' # 1$ '
' ' +< 0 < :P0 8 5J
3' 6 " *L ' Q4* ; *3 *\/0 " ;' B ; 2 42 .= *
; ' . 42 =4 ; 3 ?920 ; 3 4B2 ?92 :5 : =3 253 25
8 53 B :9J B 49 .= BG :5 42 8 5J E2.' 42+ ' 8 :9420
23 3B 3 53 2589 32 +2 3 :93 < B +. : :+
! ' Q4* ; *3 *3/0 8 [' ! 52B + 42 2B ?9 '
283 95 <2B :AR42 42 .2 ; 43 + ' LL #4 ; 3 32 GB9520 # :B5
4 :554 ' =R4B :AR42 42 2B ' ZM? " ;' 2BB2 2 ; 3 32
-' # 0 RE 6 8 ' 2BB2 8.2++420 G :+ +50 < 2BB2 = 2*
; 3 8320 . :B +0 ' AE4 0 2W
: ;' ' 3J B ^0 42 9 0 8 5J
' 6 6 " -8# , . ' Q4* *+ :*\ B*</0 " ;' 2B ; 2
42 G :3 5 ?92' $9 ' ' +28 B9 38 3 .=2348 42 B :9J20
. : ; ; 2 +2 <= 84 ' 2 =4 ; 3 :. B<2
' ' K ' 23 A < 4.0 B9 3
6 ' Q4* ; *e *84*+ 0 ' ' 2B ; 2 42
2= B9BJ 2' 9 ; 29B 8 5J9 52
' ' K ' 23 A5S 0 39 ; 29B
' # ! # ' Q4*+9 *3 :*84* * /0 8' '
2B ; 2 3I2 34B 3 :+ :J 2' : ;' 428 ; :583B28 =2M +28*
?92+8 95 4< 5.=2 ; 253 9 .2BE2 9 ' . 984 428 44*
:B ; 3 :58 42 + ' 3432
-' (! ' K ' 23 A2Q< S+ 0 3432
! ' Q2* ; *3 :*4/0 " ;' 2B ; 2 42 <=RK
8 :+ :J 2' $9 ' 283 ' '+ '5 39B2 49 5J0 ?9 ' B2882 ; *
G+2 ' 49 8 5J' LL 2B ; 2 42 2= B9BJ 2' :5J98 =2*
; 3 :420 E B 2348 42 . 5.2B 4 58 +28?92++28 +2 3 889
283 ; :90 :5J923 0 23 <B :49 3 428 =4 ; :BB= J 28'
' 2B ; 2 4= 83 : B2 5 39B2+2' $9 ' 283 ; B?94 42
3 .=28 B :9J280 82 ; G+ G+28 ' 428 J :93328 42 8 5J
' ' 39 :33 9.0 42 +<3.0 8 5J
3' # ! # ' Q4* ; *3 :*JB * /0 W' ' 9K
329B 4952 =2 ; 3 :JB <= 2P .239 ' QI9' '4.B 3 8 B +2
8 5J
3' # ! # ' Q4* ; *3 :*JB * 2/0' ' '
2B ; 2 42 <=R8 :+ :J 2' 28.B <3 :5 49 8 5J
' ' K ' 23 E< Q<23E0 44.B B2
' # ! ' Q4* ; *3 :* *4/0 " ;' 4B ; 2 42 ; *
54B + :J 2 $9 B3M =4 ; 3 :3420R B 43" 42 ?9 B3M 495
B :9J2 8 : ; GB2
' U ' K ' 23 8 F : .0 :B ; 2
3' # ! ' Q4* ; *3 :* *4 *5/0 ' ' 2B ; 2
42 .= ; 2' B 5. <2 495 G2 9 B :9J2 42 8 5J QI9'
5 ' 25 . :B2 434 B25. :53B4 4 58 4. :5 : ; 2 ?9 9 ; K
+ 29 :9 4 58 +2 E : 8 5 J2 42< 5.=2 ; 2538 8 5J9 58
' # ! ' Q4* ; *3 *+ :*@ W/U 6 2B ; 2
4 4 .3 ?92' B 340 428.B <3 :5 49 8 5J
' ' K ' 23 S4R :<3B 34
' # ! $ ' Q4* ; *3 :*+ :*@ *\/0 " ;' U7'
3 B <<:B3 ' G4 ; 3 :+ :J 2

3' # ! ! ' Q4* ; *34* ; /0 ' ' 2B ; 2 42
2= B9BJ 2' 9 ; 29B 8 5J9 520 89 32 42 . :5398 :50 42
B9<39B2 42 E B .280 23.
' ' Q ! 0 ^< W08 5J0
3' ? # " - . ?#@ ' Q4* ; *3 :5* *+/08 ' ; ' #2B*
5 2 : ; G + . +2 4 :53 +2 8 .' B25 2B ; 2 42 + ' 82B :834
23 49 8 5J 4< 5.G40 :9 ?9 ' <B482532 ' 8 ' 8 ;B .2428
E2 528 E B ?929828
' # ; 3 0 23 4<9< S4P0 : ; G + .
3' # ! ! (I Q4* ; *3 :* ; *M *4/0 8' ; <+'
2B ; 2 4253 : ; :+ :J 2' ; +2 42 4 <34B28 . : ; <B2*
5 53 .29A 42 .28 582.328 ?9 0 . : ; ; 2 +28 :28 B28
89.253 +2 8 5J 428 5 ; 9A
-' (! ' K ? ' 23 < 4 P8 E0 89.2B0
3' 6 # " - ! 8* ' Q4* ; *3 :5*8 2/0 8' ' 2B ; 2 42
2= B9BJ 2' R5 :5R ; 2 4=4 ; 3 : ; 2
-' (! ' K ' 23 :RA :' 39 ; 29B
j' # ! # ' Q4* ; *3 :* *@/@0 :4R' 2B ; 2
42 M: :+ :J 2' $9 ' E 3 42 8 5J' ' <9.2 23 + '<95 82
8 :53 G2 ; 3 :<= J28
-' (! ' K ' ' < R8 R0 ; 5J2B
3' 6 - . ? - ' Q2* ; *3 :* :*G/0 " ;' 2B ; 2
4 .+ .3 ?92' $9 ' ' G :BB29B 42 + ' 8 J542' ! 442. 5
=4 ; 3 :<= :G2 @+ 9G83 53 E2 ; 2530 95 =4 ; 3 :<= :G2'
+ 5 4 3 988' =4 ; :<G :G2' 2 <B2 ; 28 H 3B M 50
; 442. 510 ?9 ' 283 95 =4 ; :<G :G2 B2.9 30 :93 '
cWW '3' 0 < ' C7
-' (! 0 K ' 23) M .0 .B 532
3' # ! # ' Q4* ; *3 :* :*G 2/0 ' ' # :5 :9B
49 8 5J0 42 + '8 J542' =4 ; 3 :<= :G 2 283 952 4 5*
J2B2982 =4B48 20 23 + ?92+2 + 882 G 25 ; :9B B 49
; :542 ?9 ' 25 < :9BB 3 2.= <<2B0 9 ' > ' + '
30 90 < ' F 7
3' # ! # (' Q2* ; *3 :* * /0 " ;' 2B ; 242
G :3 5 ?92' $9 ' ' +28 29 +28 32 5328 499 B :9J2 42
8 5J0 . : ; ; 2 B 8 =4 ; 3 :<=R+2
' ' K ' 23 <9SS :E0 29 +2
' # ! # # ' Q4* ; *3 :*B *.= 8/0 ' '
2B ; 2V+2 ; 442. 52' #4 ; :BB= J 2 53B *B .= 4 2552
' K 0 23 # (&
! $ ' Q4* ; *3 ' M/0 ' ' 2B ; 2 42 <=R8 :K
+ :J 2' :5E2B8 :5 49 .=R+2 25 8 5J 23 49 8 5J E2 *
529A 25 8 5J B34B 2+0 4 :9G+2 :<4B 3 :5 ?9 ' . :583 *
392 B=4 ; 3 :82 :9 8 5J9 . 3 : ' 23 ?9 ' 82 < 882
4 58 +2< :9 ; :5 9 . :53 .3 42 B 58< B4
' ' +0 3 : :3.0 42 +< :0 8 5J
3' # ! ' Q / Q4* ; *34*M4/0 5 ' # ' 2B ; 2
42 <=R8 :+ :J 2' 9G B =2 ; 3 :82
3' 6 - * ! T' Q4* ; *3 :*M *5/0 ' ' 2B ; 2 42
.= ; 2' ! 3 2B2 . :+ :B 5320 B :9J2 49 8 5J
' ' +0 ! 30 3 9 : .0 8 5J
3' # ! S(' Q2* ; *3 :*\8 *+ *5/0 ' '
2B ; 2 42 .= ; 2' B 5. <2 . :+ :B 53 49 =: 8 42
. ; <4.=2 8& !B ! - ' (& -7 ' c / ' 5
4 3 988' =4 ; 3 52
' K ' 23 S :E0 =: 8
j'# ! I ' Q4* ; *3 :*M :*4*B/0 8' ; ' 2B ; 2
42 M: :+ :J 2' 5 ; + E E 53 4 58 +2 8 5J
-' (! ' K ' 23 @ :AA< :E0 4 ; 593 ' 42
Q : :E0 5 ; +
! ' @4* ; *39*B 2/0 ' ' 2B ; 2 42 ; 4K
42. 52' 882 ; 25+ 42 8 5J
-' (! ' +<3 E : .< 0 42 8 5J0 23 :4< :E0
9B 52 QE :R' 6 G
0 6 # " , *L ' Q4* ; *39*B *\/0 " ;' $9 ' . :5*
.2B32 =4 ; 39B 2
3' # ! 3(' Q4* ; 4*+ *3B / 0 " ;' 2B ; 2 4 :'
M: :+ :J 2' 582.328 =4 ; 4+R3B280 582.328 4 :53 +28
4+R3B28 52 8 :53 . : ; 48 :9 2 :B .28 ?9 '+ 'G 82
-' (! ' K ' 23 #
3' # ! ' Q4* ; 4*B *+2*</0 ' ' 2+ ' 2B ; 2
42 35442. 520 2+9 0 .2+2 ?9 ' 283 332 532 4=4 ; 4B *
+ :< 2' ' 9G83 53 E2 ; 253' 5 =4 ; 4B + :<2
3' ? , #@ - * ' Q4* ; 4*3 *+ :*< 2/' ' 2B ; 2 42
; 442. 52' 4. 34 5 :439B520 2283* *4 B2 5 <3 3942 '
<2B :2E : B+28 G+28 ?9 53 348 42 +9 ; 4B2 ?9 ' 2A 8K
3253 + '59 3 :9 <254 53 +2 .B4<98.9+20 58' ?92 42
@ :9B 4 58 <G8.9B 34 B3 +. 2+2 ; 253 43 G+ 2
-' ! ' 2 8258 42 .2 ; :3 ' E B+40 23 + ' ' <B 8
< :9B .4. 34 4 9B52
*b' # ' S ' 8 ' 2 . :53B 3B2 283 ?9 54 :5 E.W6
; 9A 42 59 3 ?92 420 :9B0 23 82 <23 3 4 B2 =2 ; 2B :'
< ' 25 JB2.0 .2 + 42 .= 3 25 3 5< : 8U . ' ' Y
' ' 0#<2< S2 ! . 0 . : ; < :8 3 :5 BB4J9 .B2
42 =< < 0 @ :9B0 23 M >0 V 5 .0 W8 +*
*' ? , - , ' Q . ; 4*B :*G/0 ' ' ' 2B ; 2
4253 : ; :+ :J 2' 25B24254EB :<+4B28?9 ' :53 42 + :5K
J928 5325528 23 428 R29A :B3 GB ++ 538
' ' T#< < 0 @ :9B0 23 <Q : .0 E 2' ' ?? ' 52 E 3
?995 @ :9B :9 49 ; : 58 <29 42 32 ; <8
? 6 @ ' Q4* ; 4*B :*\ * /0 8' ' 2B ; 2 42
G :3 5 ?92' 25B2 42 <+ 5328 + + .428 B2 ; B?93 '+28
< B +29B 4+4J 5.20 : ' 25 4 83 5J92 P & #! (

5 ' + ' =4 ; 2B: . ++2 @ 952 8 8<+ :4' 2 G2++2 42
@ : 9 BP & #! ' 7 5 ' + P B= ' ; 'B: . ++2 G+292
9 5 = ' !5 '@ # ' ' B= ; 'B: . ++2 49 > @ :5 7 -)'
6 ' 7 !#" '@ #
' U ' # 9<:A SS P 42 A '@:9B 23 A'SS:P
G. 934
3' 6 , -@- J 'QN* ; "*B:*+:*@/ ' ' 2B ; 2 4 * 5
4 .3 J92' B 38 89B + ' .:5 . :B4 5.2 428 . +254B 2B8
' ' 3' & #! !/ 7 ' 42 @:9B 23
S: (:P 4: .3B 52
3' # ! 'Q'* ; * *+:*@2/ ' ' B3 42
B2 42 . : ; <:82B +22 . +254B 2B8
3' 4 ! 'Q2* ; 2*B:*< *3 2/ 6 ' ' 2B ; 8
42 ; ! 2. 52'>\3 + 42 ?9 '5 << B 3 ?92 <254 53 +2
@:9B
' T#@ 2< @:9B 23 Q 3 ' ; + 4 2
6 * ' ; :3 ?9 4 58 +28 . : ; <:828 4 :B J 52
JB2. ?92 8 J 2 42 ; ':9 ' + ' ; : 3 2
d' ' 1+' 3' 5. ' = ' ++2 ; ' J 3
13 92 + ' " ' 42 ; ?9 ' 253 42 ' %>1 ' ; &
; ' ; 2 ?92 _Q W NLA:3:W 23 7 ' 93 49 8258
42 . = :828 4J +28 _ .2+9 ' 42 ; : 3 2 + '3B 58 3 :5 283
2 39B2++2
3' ! # + 'Q2* ; * *8N* *+ 2/ ' ' 2B ; 2
42 32B 3:+:J 2' ! :583B9 :8+34 4 58 + ?92++2 + '3432 283
B2<B2825322 < B 952 39 ; 29B 5 :B ; 2 E2 :' ? 2+?928
<<254 .28 :9 B2<+ 8 .93 548 25 E 53 +28 ; 2 ; GB28
3=:B . ?928 2A 838 ; 3
' ' #4 ; 23 " &
3' # ! 'Q2* ; *\ B 4/ ' ' 2B ; 2 42 . : 5*
. =@B+ :+ :J 2' 25B2 42 . :?9 ++28 G E4E28
- ' (! ' '23 A < +: . :29B
' ' Q2* ; +*\ B*< 6 ' 2B352 42
G:3 5 ?92' ! : 3 4 4 95 B9 3 ?9 ' 82 < B3 J2 5 39B2+*
+2 ; 253 25 429A
- ' (! ' C '23 A < .4. B9 3
' 6 - , ' Q4 ; *\ :*B42/ ' 2B ; 2 42
; 242. 52' =:B48 4 952 ; : 3 4 + 34B +2 49 . :B<8
' 'D '23 (&!#
3# ! ' Q4* ; *\B ' '3 2/ 8 ' 2B ; 2 42
; '2. 52' :9+29B ?9 '5 2.32 ?92 + ' ; : 3 4 42 + '
343: ; JB 52
- ' (! ' +4 ; 3 23 A<4E3:E .B452
'# !+ $ ' Q4* ; *\B *5 *\/ ";' $9' '
+2 . B .34B2 42 B=4 ; :B+5 2
! ('Q4* ; *8 4.+/ ' ; L W ++2 42 ; *
2 B.9+ B2' =4 ; 2R.+2 42 4. :+2 428 2 9AU4B38 '
B8 ' 434 <2 3 < B 4 2+ B: .=2 'H :B32 42
8 4J2 25 ; XB2 4 58 +28 @ B4 58 42 83P+2 B 5J G'
2B ; 2 4 B.= 32.39B2' B 3 4 952 :432 42 ; *
. B.9+ B2' L& ' .2B.+2 42 G: 8 ?9 ' 82B3 'G43 B 23
' . :549 B2 +28 B.8' L 6 2B ; 2 42 J4 :JB <= 2'
. ; ' 42 + ' ; : 3 4 4 952 ; <<2 ; :542' L" ' 4 ; *
.R.+2 42 4B:82 28<4.2 42 . 3 :5' 8$3 B2
'D#<+A9AS:^ 42 'Q + QE:R' 6 G '23 A9AS:@
.2B.+2 .R.+2
3' # 5 (3+$ ' Q4* ; *8 *\+ *\/ ";' $9+ 283
B2+ 3 ' 'B=4 ; .R.+2 ' 95 =4 ; . .+2
j' #' ! ' Q4* ; *8 *\+:*83:* ; / " '
2B ; 2 42 M: :+:J 2' :?9 ++28 =4 ; .R.+:83: ; 28 . :K
?9 ++28 95 E +E28 4253 :9E2B39B2 283 ' 42 ; 'B:542
'DJ ('23 :34< G:9.=2
3' # ! ($ ' Q46 ; *8 *+ 5*4B *\/ :VW'
2B ; 2 4 4 .3 ?92' $9' ' + ' :B ; 2 4+ ; 2 ; : 3 4 42
.R+ 54B2 .283* *4 B2 R 53 952 2.2 <+ 52 2 + '
.434 BB:54 . : ; ; 2 95 .R+ 54B2 4 EG4 4 58 +2
8258 42 8:5 JB 54 4 ; G3B2' L 2B ; 2 42 G:3 5 ?92'
2 4 3 4 952 = ; <2 ?9 ' 283 <+ 32 4 95 2434 23 . :5*
E2A2 42 93B2 :9 4 952 29 ++2 ++:5J42 4:53 952
428 .28 283 <+ 52 23 93B2 . :5E2A2
- ' (! ' D '23 -"# =7
:A 6 ' Q4* ; *4 *\3 * / W' ' '
2B ; 2 4:' M: :+:J 2' 25B2 42 B2<3 +28 8 9B 258 ?9 '
:53 9A ; 58 534B 29B28 95 < :9 .2 3B48* . :9B3 3*
32 J5 53 '<2 52 :B J 52 49 82. :54 48 J
' ' 23 A 9S:^4: J3
3' 6 : - , ' Q4* ; *4 :*44*\ * 2*4B '
2B ; 2 42 ; 54B +:J 8' R5 :5R ; 8 42 B=: ; G:24B2
.283 + ' :B ; 2 =4 ; 44B2 49 4:42. 44B2 '3B 5J+28
8 :8.4+28
- ' (! ' D" 23 "!" "#
3' # ! 'Q4* ; *25+B/ ";' 2B ; 2 42 ; 54*
B +:J 2' B 83 + =4 ; 44B2 .B 83 + ?9 '52 <:88442 ?92
+ ' ; : 3 4 42 828 .28' 5 .9G2 < 882 ' :.3 44B2
B4J9+ 2B < B =9 3 .23328 ?9 'B2 ; <+ .253 828 =9 3
5J+28P .283 + ' ; :4 . 3 :5 + ' <+98 :B4 5 B2 49
.9G2 89B 828 5J+28P 4 58 ?92+ ?928 . 8 .2<254 53
?9 3B2 829+2 ; 253 42 .28 =9 3 .23328 82 <B '9 8253
23 25 82 . : ; G 5 53 253B2 2++28 4 :55253 95 34*
3B 44B2 B4J9+ 2BP :5 ' 58 ' 952 42 ; * :B ; 2 492 '
952 ; :4 . 3 :5 5. : ; < 432 P +2 343B 44B2 283 4:52
95:' :B ; 2 =4 ; 44B2 B2+ 3 E2 ; 253 ' :.3 44B2
- ' (! ' D ' ' 23+ < : .2

, ' * # ' 3# 3#' 0)M$) .) . $ 7 ' ' M ' . ' M$)
. 21<$ ' ' . : ' J $ 2 E.M$. . $? ' ' P1$
. :E.M$. . $ 21$ J J $. ' 'J J$? 'J $ '
J $ # ' . ' . 'M1. $,$J $1 '? ' ' 2'
M1$ $. ' . ' . '1' . ' <2 ' M4 2 42 ' 1'
1
' A c ' 0.)M$) .) . $) 6:7 6' M' .
'M$. 21<$ ' c $ ' 2 ' J ' . ' E M$. . $ '
5C $ M ' EM . $? $ M' E # <1 2 M '
'J1 $? . ' J1 ' I 2 ' M. . $
' I ' JE ? ' . 2 ' $# , J .1 ' 1$ ' 2)
'M ' 1 ' .< 2 M '$ J2$.
' # # $ ' 0.)M$) .)$) :7 6' D1Q' # #
' ; ,$ X ,$C ; P '0.)M$)) .) ,) 'M' M'
. ' . 21<$ 1 '? $:12 ' J ' J'
. :1 < ' . ' ' J I ' ' . ' 1 M 2
' 23 * "
' ; N '0.)M$)<)M$ 7 ' ' M' . '41^
$? ' _ . ' . ' 2 ' < M$. ' . '$)
? 2 ' 'M.M <2 M , M 2 ,1$. ,2
M 2 . ' , M 2 ' ' .
- ' (! ' D '23 R4<: . ; 5 J2
) ' ; ,$ N 2c '0.)M$)<)M$) 6:7 . ' M' . '
41 $? ' c $ 1,, ' 2 ' J ' . ' :E.M$< M$
' ; N X AG 0.)M$)<1) $)) :7 6' O2 '
E.M$<1 $ $,2 'M. M 1 41 . ' 2 ? 2 '
' $' 2 M ' . '1 <$ 'M 2 ' , M 2 '
1 ' ,1 M. ' ' . 2
'D '23 5! ' 25J254B2 ; 253
H ; P G XX ' 0.)M$)2$)[$$ [$.) :7
6' M' . ' <. 121<$ ' $' E.M$Q $
' $,1 M. ' ' $' D1$' . ' . . $M
' $ ' I1$ ' . ' .$ 12 $1 ' JE$M$?
'D '23 S4 ; 2 4 88:+93 :5
D # '3 #"# 0.)M$)M.)2(6' M' . ' .
121<$ ' 1 ' E.M$M.$ M1 ' JE [2)
? 42 'M M4 1$ E1 J$? 1$' 4.1M$ #
1 ' M$. ' ' ,1 M' . 'M1$< 1 ' '2 ' . 1$< '
4 1 ' .)$M , $
' ' 1J M M4
' 2 ' , 2$ ' 0.)M$)M.)2$ ' ' M' .
. 121<$ ' ' . 'M1 ' E.M$M.$
' # # 46 # ' 0.)M$)M) 1) .) :7 6'
M' . '[1121<$ ' J 'E.M$M. 1 . $ J)
? $:1 '? ' . ' . M$) .2Q
- ' (! ' D '<8< : . < B3 2 23 ; 8<4E +2
G ; X '0.)M$) :7 ' G ' . 'J J$. ' JE [
+28 5. 258 2 ; 58 . :5325 53 ' + 3' C
'# $ ' ' . '< J&0$I M ' $ $
. $ ' J '? : 2 ' . $ '2 'M1$ $. ' . ' $# $
'* # '3: '0.)M$) . 7 ' ' J ' . ' $)
1 ' M J M ' . '2 ? 2 ' $2 , ' E.)
M$ ' . '< $ '0 .M 7
%' ; G1$ '0.)M$)1)41)2 ' _E [2 'N J
M1$ $. ' . : '1412 J ' ? $. $' ' 1$. ' '
M1 $
'# $ ' ; $3\1 1I . ' . M$ ' . .1 .R
1412
'* # ' 3 4)+/ # ' 0.)M$)1)6) .) . :7 ' ;
M' . ' M$. 21<$ ' Q 1 QM ' . ' . .
J: ' 2 ' ,1 M 'E.M$.M ' . ' :1J . .
' D ' ! "#
; ' 0 6 - ! 'Q4* ; 6:*5/ 0 '5E' 2B ; 2 42 M: :+:J 2'
8<4.2 49 J25B2 . =2E +0 + , ' ' + 80
+2 ; 4 ; 2 ?92 +2 4M JJ923 4
' 'D#< :E :J ; 9+ .3 42 ,4<+ 42 ; 23 E:V
52
) ; X ' 0.)M$)1) $),7 ' ' M' . '41^
$? 'N ' . ' ,1 <. ' ? ' JE JE '2 '
M 2J
'# $ ' ; 1I1a M 2J '0I1Q' # 2
%' ; C G- 0.)M 2)1) $ 7 ' ' M' . 'M. .)
J$ ' ,2 J $1 ' . '2 ' I ' ' 2 ? 2 '2 'M 2 .
: ?1$I '? : ' $' 2 '1 'M1$ ' J1 2. .)
42 ' . ' 4 '? :$2 ' <
- ' (! D 3 '_L 4X24 .2 +0E92
' # 345C/ :3 #' ' 0.)M$)1)<) $) [. [. 7
6' M' . : 1M$ ' _1 '4.M$1 < ' $. J1 '
'2 ' M2 ' '2 ' $ J$ ' $MM. .$ ' ' 2 '
$ '1 < $. ' # M 2 ' 2 . ' 24 M$ 2 ' ,2)
42 2 ' . $ J
'# $ 'D ' !#/ -
, ; C N '0.)M$)) : 6' M' . ' . 1)
21(' 1 ' E.M$ < M1 ' . '2 ' , M$2 '
. 'M1 1M 4 2$
'# $ 'D ' ' $MJ $
%' * # 6 / " ' # ' 2 ' 0.)M$) 2)M. M. 7 6'
' . ' [1121<$ ' $ # E M$ 2$. 1$ #
.1 ' 2 ' . 1$< ' 1 ' ' . M$ 2M.
V ' # K D
%' # E 8 F4# 0.)M$) $) $)6:7 6' M' . '
J4M ' $. ' E.M$ $ $? 1. $' . ' . . 1M 1 $)

3 :5 42 . 42 :< 5 ?92 ' . = 94 ' 42 49 <2B*
:AR42 42 .9 EB2
' 'D '23 - =7
! ' Q4* ; *< 4*@ 2/ :9 # ! S
Q4* ; *<+4*\8 2/ ' ' 2B ; 2 42 ; 242. 52' B +R8 :'
42 + ' ; : 3 4 + 34B +2 49 . :B<8
- ' (! ' # X S 36 42 QE:R' @'23 5S5:*
W E ' B <<2B
3' # !+ $ Q4* ; *<+2*@ *\/ ";' 2B ; 2 42
; 4 +2. 52' $9+ ' B <<:B3 ' =4 ; <+2J 2' L 9G83 5*
3 E2 ; 253' 5 =4 ; <+4J ?92 952 <2B8:552 332 532
4 =4 ; <+2J 2
, ' # ! ! ! ' Q4* ; *< :* ; *3 :*83 :* ; /
"; ' 2B ; 2 42 M: :+:J 2 :?9 ++28 =2 ; < : ; 3:*
83: ; 28 . :?9 ++28 4:53 :9E2B39B2 283 . + :82 < B 952
; : 3 4 4 :<2B.9+2
- ' (! ' D ' C39P . :9E2B. +2 23 : :< :
G:9.=2
%' # ! ! $ ' Q4* ; *<B *8 ; *3 *\/ ";'
2B ; 2 42 ; 54B +:J 2' B 83 9A =4 ; <B 8 ; 3 ?928
.B 83 9A <B 8 ; 3 ?928 ?9 ' 52 + 88253 E: B ?92 + '
; : 3 4 42 +29B8 .28
' 'D '23 # =7
6 , ' Q2* ; *<34*B/ 8' ; '< ' L 2B ; 2
42 M: :+:J 2' 25B2 4 582.328 4:53 + ' G:9. =2 283 25
89? : B 23 4:53 +28 +28 8:53 B2. :9E2B328 ' ; : 3 4
< B 428 2+R3B28 :9 439 8' L 2 4 3 988' 4 5 ; 9'
4:53 +28 +28 :9 +28 5 J2: B28 8:53 . :9B328 :9 ?9 '
:53 ?92+?92 < B3 2 49 . :B<8 . = BJ42 4 952 <23 32
+2' ' 2B ; 2 42 G:3 5 ?92' + 5328 =4 ; <32B28
<+ 5328 4:53+2' B9 3 82 32B ; 52 < B 952 +2 ; 2 ; *
GB 52982
' 'D '23 B. . < E +2
%' ? * . " - ! - " ' Q4* ; *<34*B :*5 :*3/ ' '
2B ; 2 42 M: :+:J 2' : 88:5 3=:B . ?92 428 ; 2B8
4 8 2
' 'D ' BB2<:E +2 23EV:A: . 4:8
3' # ! # ! # 'Q2* ; *BB 5* / ' ' 2B ; 2
4 . =3=R:+:J 2' <5B2 42 ; . :<34BRJ 258 G4:*
5 5 9A :B ; 4 9A 44<258 49 J25B2 48:A 23 4:53
+28 28<4228 8:53 4 328 'J B2 ; 253 42 ; *G2.P =4*
35 BB= ; <=2 G + :4:53 +2 5: ; 'E9+J B2 <B:5:524
. : ; ; 2 +2 5: ; ' 8<2. +?92 8 4.B 3 9A 53 ++28 G *
+ 9 =4 ; BB= ; <=2 GB48 + 25 Q+542 ; 4B ?92/ 42
9E 2B 4 3 E9+J B2 ; 253 G42 88 52 23 G42 88 52 42
; 2B " (
' 'D '23 '4@9< : . G22
3' 6 * # # #! , ' Q4* ; *8 *+ * ; 5*4B/
' ' 2B ; 2 42 M: :+:J 2' B G9 42 :B4B2 428 B2<'
3 +28 G 3B . 258 . : ; <B25 53 + '8 B252 23 +2 <B :322
?9 ' 82 B <<B:2G253 'G2 9. :9< 4 4J B48 428 8 + *
; 54B28
' 'D '23 -"# '
? J . ? , ' Q4* ; *8 4*B@ ' ' L ' ' ; : 3 4
4 952 8<=4B2' 28 5 48 8:53 428 =4 ; 8<G4B28 .B29A
4 25E B:5 ?9 3B2 < :9.28 42 4 ; 23B2 U '
3' < ' CN' ' ' ; : 3 4 49 J+ :G2 032BB283B2 :9 '
.4+2832' H : ; 2I 52 2B2 = < 20 ' J+2 B E 8* 6
8 53 2 ?9 ' +2 E:+ 8 43254 < B 3 :93 5 :3<2 =4 ; *
8<=4B2 '# " / ' - ' +952 82 ; : 53B2
?9 54 +2 8:+2 + 283 :G+ J4 4 ++2B B ; 252B +2@ :9B
4 58 93B2 =4 ; 8<=4B2 '<B ' 8 '> ' . :5*
?9 8 E2. 'E :98 .2 8 9E J2=4 ; 8<=2B2 H ; 4B ?921
" \' 0 '< B + 4E 4253 < B +28 4.= 5:B9B28
42 3:9328 +28 32BB28 ?92 .4 5 G J52 < B .28
J:+ 28 ?92 48 BB9<3 :58 42 + ' ; 2B :53 :B ; 28 < B
.28 B:= <2 8 82 ; 48 5 ; + 29 428 2 9A ?92 +28 429A
=4 ; 8<=2B28 :53 <2B49 <+98 42 429A ; ++2 + 2928 42
32BB 5 4 95 .N34 23 ?+ +8 :53 B2J J54 42 93B2
'T* , '$ ' :B8?92 :+: ; G:' 9E 3 <B: ; 38
95 5 :9E2 + =4 ; 8<=4B2 :5 +9 ' E 3 8:93259 ?92 .23
=4 ; 8<G2B2 52 < :9E 3 2A 832BP 23 ?9 54 + 253 44*
. :9E2B3 :5 <B43254 3?9 + E 3 434 . :559 42<9 8+:5J*
32 ; <8 '34' "N' yd #4 ; 8<G4B28 42 + J42G:9BJ
583B9 ; 253 42 <=R8 ?92 2 ; <+:R4 ' 44 ; :53B2B +28
2 238 42 + ' <B288 :5 3 ; :8<=4B ?92P + 82 . : ; <:82
42 429A 42 ; *8<=4B28 .B29828 ?9 '8 4 <3253 2A .*
32 ; 253 < B +29B :9E2B39B2 ' 42 4 95 552 9 25
49 B 23 ?9 ?9 54 +2 E 42 R 283 3 5 :' <29E253
<+98 43B2 84< B428 9 2 42 93B2 ?92 ' ' 952
3B28*JB 542 :B.2 ' L ' 2B ; 2 4 5 3: ; 2' #4 ; K
8<=2B28 49 .2BE2 9 = ; 8<=4B28 49 :2BE2+23 +28
429A ; : 3 28 + 34B +28 42 .28 :BJ 528 G 25 ?9 2+28
5 5 253 < 82A 23 ; 5253 + ' :B ; 2 ?92+2 ; :3 5 '?92
- ' # ' SEB 8' GB ?92 4 95 583B9 ; 2535 : ; ; 4
2 ; 8<=2B2 ; B 52 < B + ?92+2 :5 < :9BB '3B :9E2B
' . = ?92 =29B2 49 @:9B + ' G 9+329B 42 + 3 3942P
; 28 ; 28 + ' + :5J 3942 +2 8:+2 + 283 53 '8:5 ; 4
' ! $:' 4 58 < $' 882M F' ' 25 .2832 5 3 :5
58 4 8. :9B+B 4 95 ' 93B2 =2 ; 8<=2B2 2 ?9 :R
3B:< <+98 ?9 ' ; 28 E:298 8 + 8 B2 :7 '
$A3
- ' (! ' 3' & & # 7 ' 42 b B !5 ' 42

[illegible]

' ' L3N BW 42 +L 8 5J 23 B - '
3 82 QE:R' G
c ! $ ' Q2* ; :*83 *3 *\ ";' $9' B
Bc32 +28 =2 ; :BB= J 28' 2 ; 242 = ' ; :83 3 ?92'
' 9G83 53 E2 ; 253' 5 G4 ; :83 3 ?92' ' 8 J522
3' 8:9E253 95 3B ' G: 5' =4 ; :83 3 ?92
' U ' +Q :V@A A"h 42 3A:. . =N ; :*
3 82
'# ! S 'Q4* ; :*3G*\8 2/ 8' ' 2 ; 242' ; 2*
42. 52' 88:+93 :5 49 8 5J
' 'C ! ' 23 '3. 4 88:+93 :5
3' ! # S QN* ; :*3 :*B \8/ 8' ; ' 2B ; 2
42 ; 242. 52' < 5.=2 ; 253 42 8 5J 4 58 2 3=:B A
-' (!' ! ' 23 &!# B
3' # ' Q 5*44*\ *J :*5 +
5 * / ";' $9 ' :5M2 5J+28' = ; < =2544. J:*
5 +' J ''=2544. J:5 +2' + 42 =2544. J:5 +
8:+ 42 4:53 + 'G 82 283 95' =2544. J:52' RB ; 42
=2544. J:5 +2' B 8 ; 28 =2542. J:5 9A
? ! 0 #J -! 'Q 5*44*\ *J :*5 / ";' 2B ; 2 42
J4: ; 23B 2' $9' ' :5M2 5J+28 23 :5M2 .4348' @'
5 =2544. J:52 95 <:+RJ:52 42 :5M2 .4328
-' (!'] E 2AA 42 E 5293B2 42 2+W 95 QE:R'
; 3/ N2A 4 A QE:R' 5 A/ 23 RXE:P 5J+2
'# ('Q 5*44*\ *@*5/ ";' 2B ; 2 42
G:3 5+?92' $9' ' :5M2 < 83 +8
'] E 8A :5M2 23 R9E' 2 ; ; 2 < 83 +
'# ' Q 5*44*\ 5*4B/ ";' 2B ; 2
42 G:3 5 ?92' $9' ' :5M2 43 ; 528
'] E 2A :5M2 23 4E :< ; \+2 43 ; 52'
'Q 5*44*\ 5*4B 2/ ' ' + 882
49 8R832 ; 8 42 552?9' B2= 2B ; 2 +28 <+ 5328 ' :5M2
43 ; 528
3'? ! 8#! ,*L0 'Q 5*44*\ 5*43 *\/ ";'
$9' << B3 253 'B=2544. 54B 2
b # ('Q 33*44*\ * *+/ :4R 2B ; 8
42 G:3 5 ?92' $9' ' +28 29 28 . : ; <:8428 42 :5M2
:+ :+28
'] E 8A :5M2 23 <9SS:E 29 +2'
>((S 'Q 9B44*\ *8 +* *G/ ";' $9
' :5M2 8R+ G28' 5 E2B8 =2544. 8R+ G2' @' ' 5
=2544. 8R+ G2' #2544. 8R+ G2 <= +29.2 E2B8 + *
3 5' . : ; <:82 495 8<:5442 23 495 4 .3R+2 89 E 8 42
3B: 8 3B:.=428' #2544. 8R+ G2 8 <= ?92 E2B8 . : ; *
<:84' 495' .=:B48 495 8<:5442 495 4 .3R+2 23 4W
429A 93B28 .G:B428' 28 3 + 258 <<2+253 =2544*
. 8R+ G28 +29B8 E2B8 ?9' 8253 < B2 +8 6' 5:8 E2B8
44. 8R+ G ?928 < B.2 ?9 +8 . : ; <3253 + ' 42B5 2B2
8R + G2 <BG8 .:253
' ': B' :5M2 23
3' # ($ 'Q 344*\ *8 +* *G *\
";' $9' ' :5M2 8R+ G28' 2B8 =2544. 8R G ?92' 8*
'?9 28a 4 5 '828 B2.=2B.=28 5:98 <<B254 ?9 25 5*
.2 MMM +2 : ; 32 4 +8 5: 8 H.283* *4 B2 .:+ 8
25 8:3 ?9' 44J9 8 3 58' 8:5 5: ; @ 3 428 E2B8
=25442 8R+ G ?928 '+' +:9 5J2 495 <:2 ; 2 4:53
+9 8?9 2B 43 +3 9329B 3 :9E8 @#! !"' -E'
33' ""'<' 4 58 7
'# # 'Q=G*55 5/ W' ; ' 2B ; 2 B9B +' *
B 434 42 B 8 5
'Q=G*554/ ' ' + 5328 4 53 952 28*
<G: 2 82B3 A 2 ; ; 28 25' 8 2 23 25' 3 ?92 <:9B
82 32 54B2 '' :5J+28 Q ! ' - # ' 283
E22 428 29 +28 84.=428 23 B449 328 25' <:94B2 ?92
+28 2 ; ; 28 B G28 82 32 J5253 25' @ 952*8 B 5 +28
:5J+28 428 4: J38 23 428 :B32 +8' 5 4.B 3 988'
=2552=
' ' :3 B G2
3' # ' Q= *52*G *5/ ' ' 93B2 :B*
:JB <=2 42 = 52G 52
3 ? ! ! 6 ' QG*554*4* ; * ; 4*B/ ";'
:R' ! * R
' ' I #B' 529 QE:R' 6 G' 23 <4<:3
< B3 2
' Q= *5 B/ E' 5' '82 4 3 49 .=2E + ?9 54
' 3 8:5 .B' :B4 5 B2' +8 8:53 42E2598 . : ; ; '428
.=2E 9' ?9' . :9B253 23 ?9' =255 88253 <BG8+28 . *
E +28 .= .95 429A '<:9B89 E' 42 ; 4 ; 2 E2.' 952
B429B 9B 2982 + ' 2 ; ; 2 42 8:5 <B:.= 5
D ' # 'E F' 2882 J529B8 8 23 533B:9E48+:'
+2542 ; 5 9 B2542M*E:98 +2 .=2E + 42 B 98 52
93 < 8 <+9343 4 58 254B: 3 := + E 3 8253 +' . *
E +2 ?9 + =25 3' 89B ?9:' B 98 93 8 +94 B:'< B
+28 93B28 23 <+ .4 89B +2 3B452 'A ' -('
8<75'3' < ' " 4 58 - ' 5 <BG3254 ?92
+28 .=2E 9A 9A ?92+8 :5 ' 2549 +28 5 82 9A 52
<29E253 <+98 =255 BP @2 5 ' < 8 N3 ' ' <:B3G2 42 E2K
B 2B +2 3 #%%' 1& 5 ' 5 ' E9 428 .=2E 9A
G 54:55G8 4 58 +28 G: 8 =255 B .:53 592+2 ; 253
<:9B 82 B2253254B2 5' G' 5' 'B2 ; B?92?92 +28
.=2E 9A ?9' =255 88253 +2 <+98 8:9E253 89B3:93
4 +2JB2882 2+ 42 4 : B 8:53 +28 ; 2 +29B8 23 +28 <+98
J452B29A ' ' 25E2B8G2 253B 522 ' .2 =:.'?9

G3:552 2 828 <B29A .3 ; E + 2B8 + ' 3B:9<2 G 5*
4:552 3 8:5 . :9B8 2B G+288G =255 88 53 9B 29A
2 . GB2 82 3:9B ; 2532 23 2 ; <:B32 E2.' 29A '
/ ' # ' #255 8 4:BJ92 + ' ; :9 . :9B8 2B
+42+2 3 :9+2 9A < 248 +28 <2:<+28 23 +28 B: 8 :
' 1&' ,'* +, ' '82 . :5@9J92 E2.' 9A *
+ B2 /
-' # 'S 68' + 4 . 53 'GB 253 23 =25 88253
' '' ' A 6 8' '8:B8 2B 8 +2' 4283B 2B
<:B ; 25 P B: 8 : 8 82 E 93B:' HE 93B21 8:B +28 < G8
82 +2E P ' :B3 =25' ?92 + '32BB2 8:55 < , ' '
' 'A 6 3 829+2 ; 253 95' < +2 B: $9' 52 = 5 882
< B 2 B: ! ; 252M 23 898 952 82+ +2 :9B .=2E 9*
.= 2B 4 ; : 82+2 ' ' ' NF%' :5 <:3B + +'
+ . '?9' 9 42 .9 B G:+8 ' 952 JB 53 283 .G2 *
B285 '495 @ BB 8 ' .G2E 98 JB 32 23 G252 ; :9+3
3 JB 53 <2832+ 8 H< 43 52 ; 2531 'Q 53' E 38 '
'S 6 '>2 52 G 5 8 <:9B 93B2 E: 52 $92 42 ; 25
B23:9B52B ' +: 8 B:9E4 ; 2 89 8 <:9B 952 : 8
882M +:5J92 ; 253 25 :9B 52 ' < ,'
'AE 6 8' 5 :2839R GB9R3 + 3B28 3 G:9B8 8:55: 253
B: ; <28 .+2B:58 23 .=2E 9+A G 5 88: 253 ' '
E 7
' ' 2BBR ' 49' + 3 5
M' # ' Q= *5 *8 5 8 5*3/ 6'
$9' =255 3' 28 . E +28 G255 88 5328
! Q= *5 *82* ; 5/ ' ' 2 .B' :BK
4 5 B2 49 .=2E +' 83*.2 E:98?9' 4:552B2M 9 .=2K
E + 8' :B.2 ?9' +9' 2B2M <:9882B 828 =255 882*
; 2538^ ' ' 1 ' 1 AAA A 7' 2 G255 882 ; 253
4 ++4JB2882 4 58 +2?92 + ' E: A 82 3 253254B2
+:5J92 ; 253 ; :532 23 5 3 '428 8:58 <+98 J98 4
'J, ," <'3 "' ' J' 2332 ; <439:8 32
.28 2 ; <:B32 ; 2538 .2 G255 882 ; 253 428 . .29B8 + 8*
. 8 283 89<<B ; 4 '# '< , '
' 6 ' ABE6 8' '32BB2 3B2 ; G+2 3:932 428 JB 58
5+882 ; 2538 28 :B8 4283B 2B8 . :9B 53 23 428 B2*
; 882 ; 2538 2 ' '< 'E' CC ' AE 6 8 (9A
?9' ; 25: 3 +28 . :9B29B8 42 . 3=:+ ?928 53 :9+
95 JB 54 = 55 882 ; 253 4:' .=2E 9A 8253 3 +' B*
. 8842 5 ' ' +9 3:
-' (!' K - #
! - "*L0 'Q4*5 :*3 *\/ ' 4 3 ?92 I45:5
2 ; <2B29B 4 B3253 <9G+ '25' "F ' 2 23 42 B43 G+ B
95 34 42 .B:R 5.2 4 58 +Y + Y' 23 4:' B495 B +28
. 3=:+ ?928 23 +28 293R.= 258' # <9G+ '8:5 =45:3 *
?92 .28343*4 B:' 8:5 44.B83 495 :5 ' '
33
' ' I g' 42 E:EE 95 3 42 FE 5293B2
42 2 \ 95 QE:R' G
Q 5*B /' B4B2 4' 53*#25B :B4B2 ; *
+3 B2 583 394 25 C N < B 4+2.329B48 A2' '
; B?92 25 283 952 43: +2 'G9 3<: 5328 9 ; +29 42
+ ?92+2 283 +2 G9832 42 8 53 #25B 2 ; <2B29B' +2
283 33 .=42 < B 95' .:B4:5 4 BJ253 ' 95 B9G 5
.B ; : 8
'D -# '5: ; ' J2B ; 5 ?92 4:53 +' :B ; 2
4 58 +2 = 93VW +2 ; 54 283 D # & ' 42 23 ; ; *
8:5 E ++ J2 23 5G <9 88 53' .G2' 42 E ++ J2 :9 42
; 8:5
'Q 5*B * *4/ ' ' :2 ; 2 4< ?92 42
:+3 B2 4:53 25B' B:' 42 B 5.2 283 +2
=4B:8
'; XA X '0) $) $$ 7 ' '" 'X1M .' J)
$ '. '#$' $.J2 ? $ 'I1 2 $ ' J ' J
. 'J 2 ' ' 1 J $I $ 'M.M'2 'JE ' .:.<$=(
2 ' 1M I$ ' . 'M1$ ' ; $. 'P ')
3' # 'Q25*B *:/ ' ' 54285: ; 8 E9+J B28
42 + '@2952 GB ; 2
; C A Q4*< B/ ' ' : ;' ?92 +28 5. 258 .= *
; 8328 4:55 253 9A 89+ 9B28' 2< X8 +. + 58 +28
89+ 9B28 +. + 58
' ' : 2 8 58 4:932 ' . 982 42 +
. 9+29B 42 .2B3 58 89+ 9B28
3' ? . # "#@ 'Q4*< *3 +*@ 2/ ' ' 2B ; 2 42 52*
42. 52' :9+29B 54EB >J ?92 49 : 2
4 # "#@J*L0 'Q4*< *3 +*@*\/ Q 4P' $9' 'B <K
<:B3 ' E. 2<$
,3* (!' # 3 < 3 XA ; 2 23 4SR:W 4:9+29B
3'? 'Q4*< * / ' ' 2B ; 2 42 <4.G2' : 8K
8:5 49 J25B2 428 \GB28 4:53 + ' . :9+29B <<B: .G2
42 .2+2 49 : 2
' #6W< +9 A:^ : 2
$ 'Q4*< *3 *\ + 6' ' 2B ; 2 4 5 *
3: ; . '$9' << 5 253 5 : 2' ''E 882 9A G4< 3 *
?928' + 5 + G4< 3 ?92 . 5 + ?9' 2 ; ; 452 + ' G 2
49 : 2 23 8 5 83: ; :82 E2.' +2 . 5 + .R83 ?92'
' 2B ; 2 42 ; 442. 52' $9' 283 4 58 +2 ' 2P' :9+29B
G4< 3 ?92' F' 2B ; 2 4 = 83: B2 5 39B2+2' $9' '+'
.2 ' :B' 49 ' : 2 :9 4:53 :429B <<B: .G2 42 .2+2
49' : G 42 8:9 B2 :9 42 + AR4B:J 52 89+ : 4' 9K
425 32B ; 2 42 2= ; 2' B G4< 3 ?92 8 J M =R4B:*
J452 89+ :B4' F6 #' ' 2B ; 2 42 G:3 5 ?92' 25B2

42 B25:5.9+ .428 := :5 4 83 5J92 ' =2< 3 ?92
. : ; ; 952 :9 428 @ B4 58 & (' # ! ' 6 '
?9' '2+4 B2. : ; ; 5422 .253B2 +28 ; + 4 28 49 : 2
23 952 28<2.2 4 54 ; :52 <B 53 5 4B2 - !- '& N
('QB25:5.9+ .428/' 4' ; +2 42 <+ 5328 . :*
3R+24 :528 ?9' B25 2B ; 2 42 <23 328 <+ 5328 =2BG 2428
B ; < 5328 32BB283B28 :9 < B 8 328 532B ; 44 B28
253B2 +28 + .=258 23 +28 ; :98828
-' # 'S 6 8' 2B8 +2 . :942 82 ; :583B2 <2B32*
; 253 + 'G 8 + ?92 ?9' 25 <<2+2 + '2< 3 ?92 :
6 ']' ' 'S 68' 28 < 32538 E: 253 952 E E'
23 5 39B2+2 . :9+29B 8 58 9.95 8 J92 4283B2 =2< *
+ ?928 'E ' S + ' . :583 < 3 :5 49 E253B2
9R ' ; 2 ++29B 32 ; 242 ?92 +:28 =2< 3 ?92 : '
' SE2
' # 3 A A4. 42 'A:< + .:A:. : 2
3' 6 , ? ' ' 3 ! :3 ; + 3 E:R' # !''
3' # ' Q4*< *3 *M *8 :5/ ' ' 2B ; 2
4 5 3: ; 2 < 3=:+:J ?92' 88 J2 495 3 889 :BJ *
5' L92 ' 95 43 3 32+ ?9 + <B482532 8<2.3 49 : 2'
=4< 3 8 3 :5 49 <:9 ; :5
-' (!' K #
'0 #"* ,' Q / Q4*< *3 *M4/ W' #" ' 2B ; 2
4 5 3: ; 2 < 3=:+:J ?92' 9G B =4< 3 8 3 :5' 2
<:9 ; :5 8 283 =4< 3 84 B < 42 ; 253' :9 ; :5 =4< 3 84
' 6#A:< @A :^ : 2 23 + ' 5 +2 #'
. : ; ; 2 8' +28 B228 E 253 :B ; 4 +2 E2BG2 3 A3 X
' Q4*< *3 * / ' ' 6 2B ; 2 42 ; 4K
42. 52' 5 + ; ; 3 :5 49 : 2' F' 2BB2 <B4. 2982
?9' 283 42 + ' . :9+29B 49 : 2
4 ' # 3 A A^ 42 ' .W< + 3 A:. : 2
'6 #"-8 @' Q4*< *3:*82* / ' ' 2B ; 2 42
.= B9BJ 2' # 2 ; 2 49 : 2
' # . < @3 A:. : 2 23 A 'S@ =2 ; 2'
3# * ($ ' Q4*< *3:*8 *83 *\/ :4R $9
<< B3 253 9 : 2 23 '+ 'E28 .9+2 49 2+' *
' #A < + A A:8 : 2 23 (=7
3' # * $ ' Q4*< *3:*J *83B *\/ ";'
$9' 'B <<:B3 9' : 2 23 ' 283: ; .'
3' # * ' Q4*< *3:*J 8*83B * / ' '
2B ; 2 42 ; 442. 92' 5 + ; 3 :5 49 : 2 23 4'
283: ; .
' #5 < + . A:^ : 2 23 / #
3' # # ' Q4*< *" *JB * 2/ 6' ')
B <3 :5 49 : 2
' # 3 < + 5 :. : 2 23 "b -'44.B B2'
j' # * ' Q4*< *3:* 5*32*83 *
5 + 5 * / ";' $9' << B3 253 9 : 2 23 ' 5328*
3 5' ' 5 + =4< 3:* 53283 5 + 5: ;' 4:554 9 . 5 +
G4< 3 ?92 428 8:+ <4428
3' # 'Q4*< *3:*+:*@ 2/ ' ' B 34 89B
+2 : 2
' '6#A < @A A:^ : 2 23 S4R:h 3B 34
3' # ! 'Q4*< *3:5* * / ' ' 2B ; 2
42 ; 442. 52' #2B5 2 49 : 2 552 9 : ; G + . +
' 5 4 3 988'=4< 3: ; <= +:2+2
' # 3 <+IA A:V : 2 234<X< S4^ : ; G + .'
3' 6 .#"-, ,* J' Q4*< *3:*BB429' ' ' 2B ; 2 42
; 442. 52' 4@2.3 :5 G:54 532 42 ; 3 4 28 25'
JB 542 < B3 2 :B ; 428 42 G +2 <B28?92<9B2
:' ' # . < @'A E:^ : 2 23 83E .:9+2B'
3' # 'Q2*< *3:*8 \ :*< 2/ ' ' 2B ; 8
4 53 ?9 34' B3 42 42E 52B E25 B < B 58<2.3 :9
49 : 2 428 E .3 ; 28 .2332 58<2.3 :5 2+2* ; 4 ; 2
' 'B? 9 '#A A:. : 2 23 V A: BW3E 2A ; *
'52B
'? "-"-0*,' Q4*< *3:*3:* ; 2/ 8' ' 3: : *
33:5 49 : 2'
-' (! !3< \! !(' :+4 23 A:@ 4 882.3 :5'
5K? . ?"? * 'Q4* 34* ; * ; 2*B/ :4R 2B ; 2
4 5. 2552 ; 23B ?92' $9' '4' ; :3 4 82<3 < BK
3 28 2283* *4 B2 3B: 8 ; 289B28 23 42 ; 2' 2 32B ; 2
42 <B:8:4 2 JB2.?92 8 <<+ ?9 3' 3]' 9A E2B8 42
82<3 8R+ G28 . : ; ; 2 .29A 4 5 2B4:5P 6 9A .4*
89B28 42 3B: 8 < 248 23 42 ; ' 5 4 3 988' 82 ; *
82<345 B2
-' (!'T AA:. 82<3 QE:R' 6 G' 23 < <2P
< B3 2
T ' # ' Q4*<84/ ' ' : ;' E9+J B2 495< : 8*
8: B?9' 283 R &"# - ' & ' Q . 53=:<34BRJ 258/
'# *0' :9 # ' <B2 A2 ?9' 8 J5 2
82<3 23 E 253 49 JB2.' AA4 QE:R G
'Q2*<3 *\ 5* / 4R' 2B ; 2 42
M: :+:J 2' $9' <:B32 82<3 4< 528 :9 J9 +:58
' 'D '23 4A:.E4 4< 92'
' Q4*<3 *\ :B64/ ' ' ' 2B ; 2
42 ; 98 ?92' RB2 :9 .3G B2 '82<3 .:B428 428 5K
. 258' ' 6 R832 ; 2 42 8:58 . : ; <:84 42 82<3 5:328
32+ ?92 + 'J ; 52' 6 ?";' $9' '82<3 .:B428' RB2
?' : :#:*4 *"' #"* / :-' ("4%' "% :*4*6
.:B42

N

' # (' Q 2*<3 *4 *\3+* &/0 ";' 2B ; 2
42 M: :+:J 2' $9' '82<3 4: J38
-'N (!'K '23 4A W/ :P0 4: J3
j' # ' Q 2*<3 *4D/0 ' ' B:9<8 42 82<3 .=:*
828 :9 42 82<3 <2B8:5528' LL ' B295 :5 428 82<3
8 J28 42 +' B2.2
-' (!'6 5 0 82<30
3' # 'Q2*<3 *2*4B&/0 8' ; ' 2B ; 2 42 J4:*
; 3B 2' :+ 48 6 82<3 .28
-' (!'K '23 < 0 .2
' # $ ' QN*<3 *'B *\&/0 ";' $9' <
< B3 253 ' &=2<3 24B2
3' # 0 ' Q <3 *J:*5 +0 5 * /0 ";'
2B ; 8 4 4 .3 ?92' $9' << B3 253 \' &=2<3 J:52'
+ :+ 428 =2<3 J:5 9A0 8:+ 428 4:53 + 'G 82 283 95
=2<3 J:58' RB ; 48 =2<3 J:5 +2' B 8 ; 28 =2<3 K
J:5 9A
' Q*<3 *J:*5&/0 ";' LL D 2B ; 2 42
J2: ; 23B 2' $9' '82<3 5J+28 23 82<3 .N3N8' L/ 9G*
83 53 E2 ; 253' 5 =2<3 J:580 95 <:+RJ:58 42 82<3
.N328' ' 0 2B ; 2 42 :B3 . 3 :5' 9EB J2 .: ; K
<:83 42 82<3 G 83 :58
-' (!'K '23 RXE:30 5J+20
' # (' Q2*<3 *@ *5&/0 ";' 2B ; 2 42 G:3 *
5 ? 2' $ ' '82<3 < 83 +8
-' (!'K '23 R9E'0 2 ; ; 20 < 83 +
' # (' Q<3 *@ *5 2/0 ' ' 2B ; 5 42
G:3 ; ?92' + 882 B25 2B ; 53 +28 <+ 5328 V3 82<3
< 83 +8
' # ! ' Q2*<3 * ; @*3B&/0 ";' 2B ; 2 4& 5*
. 2552 ; 43B ?92' 2B8 =2<3 ; 23B20 :90 89G83 53 E2*
; 2530 95 =2<3 ; 23B20 E2B8 ?9' '82<3 < 248
' 'K '23 <2B<:E0 ; 289B2'
! ' Q4*<3 * ; 2*B:5/0 8' ; ' 9EB J2
.: ; <:82 42 < B3 28 4 83B G9228 25 82<3 @:9B5428'
&#2<3 ; 2B:5 42 + 'B2 52 42 E BB2
-' (!' !:3 .:58 .B4 < B &98 J20 ; 8 ; +
:B ; 4P +' 42EB 3 \3B2 & "#!-' 42 +CB. 5L9<:h0
42 + 3B 0 82<3 QE:R' G '23 'Q6c< 0 @:9B
3' # ' Q4*<3 5*4B&/0 ";' 2B ; 2 42 G:3 *
5 ?92' $9' '82<3 43 ; 528
' 'K '23 4 E'<0 ; 3+20 43 ; 52'
' QG*<3 5*4B 2/0 8' ' 2B ; 2 42G:3 *
5 ?92 + 882 49 8R83\ ; 2 82A92+ 42 5520 ?9'325*
2B ; 2 +28 <+ 5328 4:53 + ' +29B '82<3 23 ; 528
3' # ! ' Q 2*<3 *52* ; D/0 ";' 2B ; 8 42
M: :+:J 2' $9' '82<3 3253 .9+28' D
' 'K '23E 0 + ; 253
3' ? ."#!"? ' ' QG*<3 5*34*B20 B42/0 ";'
2B ; 2 42 G:3 5 ?92' $9' '82<3 53=2B28 :9 "3 *
; 528
' 'K '23 (& #
3' ? ." . "#@ ' QG*<3 *<4*3 *B/0 ";' 2B ; 2 42
G:3 5 ?92' :53 + ' .:B:++2 82 .: ; <:82 42 82<3 <46
3 +28' ' 5 4 3 988' =2<3 <43 +4
-' (!'K '23 7?
M # # ' Q2*< * :*5 0 4P' .=:' =2<3 *
<=:520 2.=:' ?9 'B4<G32 82<3 : 8
' ' 2<3 0 23 <XE50 E: A
3' # #(' Q4*<3 * * &/0 ";' 2B ; 2 42
G:3 5 ?92' 29 +2 =2<3 <=R++20 29 ++2 <25542 ?9'
283 :B ; 42 42 82<3 :+ :+28
' 'K ' 23 Q<4SS:E0 29 ++2
b* # # ' QG*<3 B*.= 2/0 ' ' 28 2<3
:R 9 ; 28 :5448 < B +28 5J+28 23 +28 A:58 25
B23 J520 9'E6 23 9 E 6 8 G.+2' # :9E2B52 ; 253 42
82<3 54 E 498
' 'K '23 4: ; 5 3 :5
3' # ; $ ' QG*<3 B*.= *\&/0 ";' $9' '
B <<:B3 ' =2<3 B.= 2
j' # $ ' Q=G*<3 B*\&/0 ' ' = .95 428
B: 8 4&952 =2<3 B.= 2 &
,' # ' QG*<3 *82*< "&/0 :4P' 2B ; 2 42
G:3 5 ?92' $9' 283 :B ; Z 42 82<3 84< +28
' 'K '23 "
,' # ' QG*<3 *83 *4&@0 ' ' : ;' 4&952
4 '2' ' +2A 54B 2 4& JR<320 49 32 ; <8 428 B: 8
JB2.8' 48 B0 <:?B 25 <B: +2B0 253B2<B 3 4&2 ; <:B32B
+2 42 = B:80 :4' +' 3 42G B?92B 828 3B:9<28 <B28
+2 .: ; G 30 23 42 82 B254B2 ; 33B2 42 + '4 J94 ?9&:5
<<2+ 3 =2<3 83 420 ?9' + '@: J5 3 9 .:53 52530
0 K ' -(' 1<75' 3' S0 <' IN0 4 58 <:5*

' 'K : '23 "
(' Q2*<3 *8 +*+ *G&/0 ";' $9'
82<3 8R++ G28' -(!- 7 !-- '283 95 ; :3 =2<3 *
8R++ G2' + '(/ ' ' -' & - '28395' E2B8 =2<3 *
8R + G2
' 'K '23
3' $ ' QG*<3 *329*\&/0 ' ' 28 82<3
<B2 ; 2B8 + EB28 42 & 5: 25 283 ; 2530 .&283* *4 B2
2 253 329?920 +2 + EB2 42 >:89G 23 +2 + EB2 428>9*
J28' Z 9EB J2 4 E 8G 25 82<3 + EB28

' 'T 9 29A:3@ 42 h B3 0 82<30 23 32E*
' 583B9 ; 2530 + EB20 E:+9 ; 2
' # ! ' QG*<3 *3:* ; & / 0 ";' 2B ; 2 42
M: :+:J 2' $9' 283 4 E 8G 25' 82<3 B3 .+28
-' (!'K '23 ,.:<DG0 82.3 :5
' ?W #8@ ' QG*B *\+G2/0 6' ' ' 2B ; 2 4& 5*
3 ?9 32 JB2.?92' G32R 25 =:5529B 4&#2B.9+2
' 'D#< A/ 5^0 #2B.9+2
*9c ' QG*B *\+ *4&/ 0 8' ' 28.254 53
4&#2B.9+2' 28 #GB .+ 428 8&G3 G+ B253 4 58 +2 G+:*
<:55G82' # : ;'4&952 3 .=2 42 + '+952
' 'T#< AS2 F5.0 42 #2B.9+2
,#@ *L ' Q2*B +*4 *\&/0 ";' $9' ' B <<:B3
9 G+ 8:5' & B3 =GB 34 ?92' LL :+:552 =GB +4 ?920
.:+:552 ?9' <:B32 89B 8:5 43 428 G.988:58 G+ *
8:5 28' ' . 25.2 =GB +4 ?920 .2++2 ?9' B 3@ 428
B ; : B 28 23 428 5. 25528 G328 42 .=2E 2B 2'
' @' ' &=GB +4 ?920 + '8. 25.2 =GB +4 ? 20 23 88'
&2582 ; G+2 428 2 ; G+G ; 28 42 G+ 8:5' D:B 5J2 283
25.:B2 98 32 4 58 =GB +4 ?92 5J+ 82
' 'K # 7 ' 5. 2552 ; 253 & #
3 + 2 ' V2*B *39* /0 8' ' 8<G22 4&=9 3B2
:88 +2 <23 32 23 :G+:5J92
' Q=G*BGP +2' '82 + 2 4 58 + '<B:5:5. 3 :5
8:932592 ' 95 =G*BN*3 25E:RG P W <+9B 2+0 8 82
+ 2' ' 428 =G*BG*M 25E:RG8 /08' ; '/ 0 58 & 5*
3 ?9 3G0 : . 2B .= BJG 42 <9G+ . 3 :58 8:+2552++280
23 42 4 E2B828 :5.3 :58 4 58 +28 .GB2 ; :5 28 <9G+ *
?928' 2 . 49.G2 4&95 =GB 93' ' <2B8:5 2 428 =G*
B 938 G3 3 8 .BG2' 5 25E:R ' 95 =GB 93 <:9B 8: ; *
; 2B +2 '= G 3 538 42 82 B254B20 E G 3 'U'1' 50 '
! +=29B29A0 @& ' 82BE' 42 =GB 93 '8' J+: B2Z '
< &' ++0 30' ' J' 2+9' ?9' 55:5.2' >2 89 8 +2
; G42. 5 42 ; 2 23 +2 =GB 93 42 + ' + G2B3G 23
42 + ' EGB 3G0 ' 7(-'06 ! ! & '
4' › -(-' 5 B:88 J5:+' 3: ; G '4 58 828 ; 58 H49
; + 5I' < B ; +=29B0 2 =GB 93 49 <B 532 ; <8 +9'
42 ; 542 + 'E 20 ' ' '3A0 8'# ' 58
+2 ; :R25 J20 : . 2B ?9' 8 3 4 E2B828 <B:.+ K
; 3 :58 :9 ; 288 J280 23 4:53 952 428 :5.3 :58
G3 3 42 BGJ+2B +28 G328 42 .=?E +2B 2 23 42 325 B
B2J 83B2 428 5: ; 8 23 428 ! 8:58 428 .=2E + 2B8'
2 =2B 93 8 3 +28 4G 8 <9G+ .80 +28 BGE28 23 +28
3B 3G8 42 < A0 23 55:5? 3 +28 3:9 ; : 80 ' '
5 'K '"'0& '"'R ! '4 58 '
:9 8 S '25E:R '95 =GB 93 4& B ; 28 55 5.2B + '
J92BB2 9 4:J2P +'B242 ; 54 3 +2 BG ; :5 80 ?9& +'
E +' .G4G +9 * ; G ; 2 9A G5 3 2580 ?9 54 +8 *
E 253 4G '<B254B2 +2 ! + 5 80 ' C(7# ' '
>L 9 32 ; <8 42 5. 2552 ; :5 B.= 20 : . 2B8 ? '
82BE 253 <:9B +28 .GBG ; :5 28 428 ; B J28 23 428
8 .B28 428 B: 80 428 <9G+ . 3 :58 4W < A0 23.' +8
G3 253 9 5: ; GB2 42 E 5J3*G9 30 4:53 +2 <B2 ; 2B0
?9'G3 3 B:' 4& B ; 280 82 5: ; ; 3 ! :53@: 2 53*
25 80 5. 25 .B' 42 '2BB2' 428 < B 5? 8
-'# 'A (6 8' ' =2B 9A 283 253B2M 25 + ' . 32
53 20 (' %NC' LLAE6 8' ' 5B253 :B4:55G8 429A
; :9+3 (++ 58 .=2E ! 2B8 <:9B ++:B + 0 23 25 +29B
.: ; < J5 2 3B: 8 \2B 938 <:9B B2.<55: 83B2 +2938
B ; 28 H428 82 '29B8 ; :B38I0 23 429A .+2B.8 <:9B
28.B B2 23 25B2J 83B2B +28 5: ; 8 42 .29A ?9& +8 3B:9*
E2B:+2530 ' @ 0 YBR' >2 5& ' ; 8 G:5 82528*
.= 930 2 <:9B ; :'+:52B =2B 9+30 ' 6'0!" '
'0'CF' 'AE@6 8' ! 54 53 'E:83B2 8:89B0 < B 95J
B:' 4& ; 280 9 3B2 ; 253 +2 =2B 9+3 +: 80 8 '
: A0 E @0 ' #2B 9+3 :9 ; 288 J2B 52 4:+E253
283B2 25 4 ; J2B0 (' ' ' 0#!5' ' 90
<'F
' ' 8< J5'& # "!'=2B 4:P 5.'28< J5'
& # 7 3 <:B+9J' # 7 !' 23 988' # 7 3 3 +'
# " 3 5J+g & # "3 ++2 ; 'K # "3 G 8*+ 3 50 = *
# " ' & # "7 ' 2 ; :3 < B +3 J2B ; 5 ?92' 23
2M 32 ; B?92 ?9& 'BG<:54B 3 ' 95 32B ; 2 42 B 5*
. G5 G 93* 2 ; 54= B3:WU 0 2B 4& B 5G20 ; 8
?9&:552 3B:9E2 .2 & # !Q A' ?92 .: ; ; 25: ;'<B:<B23
1& # !5 "7 3 8 A:50 K # ! 3 8. 54 5'K # "#
0 ' Q2 *G *8"0 8G2/0* ";' 2B ; 2 42
G:3 5 ?92' $9' +2 . B .3GB20 << B2 .2 42 G2BG2'
' + 5328 G2BG :G280 .2++28 4:53 + '3 J2 23 +28 GB 5'
.=280 52 <B:49 8 53 < 8 42 G: 20 'B 88253 <B2 '
? 2+?928 ; :+8 4:' EGJG3 3 :5' LL 2 4 3 988 0 < B :<K
<:8 3 :5 ' + J525 0 42 3:932 < B3 2 428 EGJG3 9A ?9'
283 4&95 3 889 E2B3 .: ; < B G+2 '22+W' 428 +29+++28'
5 J+ 54 ?9&:5@2332 25 32BB2 5 <B 532 ; <80 <B:49 30
9 G:93 42 ?92+?928 82 ; 5280 95 <23 3 @23 3254B2
23 =2BG .G0 %%' <5 "#' 7#'7 '5"/']' ; G ;
' '3 3'& # (7 *' 42 & # ' =2BG2
"' # ' QGB*G *@&/0 8' ' #D :932' 8:B32
4&=2BG28' 2 <+98 8:9E2 3 952 .:9B:552 42 29 28
42 .GG52 :9 42 + 9B 2B0 :9 42 ?92+?92 =2BG J2 <+98
E +' 25.:B20 42E25 3 5283 ; G+2 < B ; '+28 8:+4 38
HB: ; 58I0 ?9 5 ' .:55 88 253 <: 53 42 <+98 G2++28
; B?928 ?92 .2++28 42 + ' E2B39 5' 42 <+98 5:=+2

4 83 5.3 :5 ?92 .2++2 ?9 'E25 3 428 .3 :58 J+:B 296
8280 :88' ; 0 N' $92+?9'' 5 8 4G4 J5G8 48
+ 'GB932 8 9E J20 &=2BG J2 ; <9B E: ; '< B +2 #:3
G.9 ; 530 2 5:8 .:B<8 G<9 8G8 8:53 &5 ?92 + K
; 2530 93 E' 50 LL ' &G2BG2 42'
<BG80 428 < 39B J28' 'G .=2 H?9' '<2B49 8:5 :5I
4 88 <2 8:5 .= JB 5 25 .=2B.= 53 4D 93B28 =2BG J28
23 4& 93B28 :BG380 <' ' = 50 "NF' LL 0 B
33.9+ 2B2 ; 253' BG 4283 5G ' &25JB 8 428 G:29 2 23
428 E .=28' 23 =2BG J2 283 4&95 3BG8*JB 54 B2E259
' d 2BB 5 25 B .=2 89B +2?92+' 3:93 <B:<B G3 B2
42 G283 9A ' 4B: 3 42 +28 25E:R2B
-' # 'S 6 8' 52 23 .2BE2++2 H +I' 3 E:+2B 25
&2BG J20 < ' <' %' LLA5 6 8' B283B28 ! B3 58 28*
3: +' ; :9+3 8 J28 2 ! 25 5:BB B < B .28 2BG J28
B2G 8 4:53 +' :3 ; 53 B: ; J20 < 'C 7N' &2+'
H+28 +29B8I 52 8953 <: 530 8 2G G8 42 .2B3280 2 3B:<
.+:8280 52 3B:< :E B3280 58 + ; G: 253 <=B +28 =2BK
G J28 + ; 2 ++:B <: 53 42 +:B J280 '< ' NC
' !J 8' & <<B 58 988 0 ++ 53 9A < 839B J280 '
2E 32B +28 4 5J2B29A =2BG J280 ' ' ' 3
283 4 3 E+' =2BG JG H8:B32 42 4B: 3 ?9&:5 < R 3 9
82 J529B <:9B < 39B2I ?9 54 +2 5: ; GB2 428 G28322
283 42 4 A 23 9 428898 0 23 ; :B3 =2BG J2 ?9 54 +
283 42 529 '23 9 4288:980 , ' ' 0 <' 23.
' ' De ++:50 4 1 ' G:9BJ9 J' 1 '
<B:E25.' 1 '28< J5' 1 ' 3 +' 1 '
49 G 8*+ 3' 1 *, '42 1 '=2BG2' 1 *, '
8&2 ; <+:R 3 89B3:93 9 8258 42 4B: 3 42 < 3 9 J2
,Ib ' # ' Q2B*G 6@&/0 ' 5. 25'32B ; 2 42 ; K
B 52' c3: 2 42 + 52 JB:88 2B2 23 42 .:9+29B GB9520
8:B32 42 . ; 2+:3 4:53 :5 B 8 3 428 325328 <:9B +28
5 E B280 428 . G 58 23 428 .= 9889B28 <:9B +28 J258
42 ; 2B0 E
-' (!' & <BG8 > +0 G 8*+ 3' 1 , '42 3 +'
1 * ' 42 & 1 '+ 2 << B325 53 9A G5 3 2580
: ' :5 GB ?9 3 3 1 *?
' # N ' QGB*G *@2/0 ' ' LL 6 2+9 '?9 '8& *
4:552 ' 25JB 8 428 G:29 8' LL 6 2B ; 2 42 G:4 *
+ 3G' B 5.' =2BG J2B0 2A2 ; <3 49 4B: 3 4&G2BG J2
' ' 1
%' # S0 a ' QGB*G *@2 0 @24*M&/0 6'
:9E2B3 4&=2BG J28 D 54@8 ?92@2'325 8 +28 R29A A28
89B 8 20 8:94 5 49 2G3G 49 5:B4 428 3:9BG ++:58
42 + ; ; 2 2342 9 ; G2 33 BGB253 ; 25 33253 :5P ++'
.:9B9B253 +2 +:5J 49 + :' 5J29A 4& M: 0 23 9B25+'
82 <2B4B2 4 58 +28 <+ 528 =2BG J29828 49 :9G 50
' < , ' "
*B' (+ ' ! J ' #2BG J29A0
3' 'hGB*G * & 0 $' ; :9 ++G28/0 ' ' : ;'
4:55G0 < B <+ 8 532B 20 '428 <+ 5328 .+ 88G28 4 58
95 =2BG 23' : . 0 ; :58 29B0 ; 28 ; 8GB G+28 =2B*
G ++280 D' ' '4 58 & ! ' '
%' ' QGB*GG/0 ' ' 2B ; 2 42 EG52B 2'
++: ;'?92 :5 4:552 8:9E253 9A .= 258 42 .= 882
?9 '82 @233253 49B2 ; 253 89B +2 J G 2B
' QGB*G&/08' ' LL 6 :93?<+ 532 ? 0 5&23 53
<: 53 BGB20 BGB 88. 9 :9 BG98320 283 <B E22 42
G:9BJ2:580 8: +' ?9@42'52 E2 ?9&95 50 :9 ; : 580
8: 3 ?92 828 B . 528 E E .28 G ; 233253 2G ?92
55G2 42 5:9E2++28 3 J28 =2BG .G28' :3 J2 9A
=2BG28' 2 <+:5J2 25 95 G 5 4&2 9A 23 4&=2BG28
5.:559280 ' ' 0' "' +8 8:53 42E2598
.: ; ; 2 +2 : 5 ?9' 283 4 58 +28 .= ; <80 23 .: ; ; 2
D=2BG2 E2B32 ?9' .B:+3 89B +28 3: +80 ' ' 1 '
' A@A0 N' 29 4 3 25.:B2' $92 + '32BB2 <B:*
49 82 42 =2BG2 E2B32 ?9' <:B32 42 + 'JB 52 23 428
BGB28 B9 3 2B8 ?9' <:B3253 49 B9 30 "' 1' 2 '
' """' ' :9 ++:5 4&G2BG28 :9 9A G2BG280 8:B32 42
G:9 ++:5 ?9&:5 <B254 ?9 54 :5 82 <9BJ2 'dl >98
4&=2BG280 892 42 <2B8 +0 42 .2B 29 +' 23 93B28 =2BG28
2A3B 3 < B <B288 :50 23 ?92 +2'E9+J B2 B2.: ; ; 542
<:9B + ' 4G<9B 3 :5 49 8 5J' # 558 =2BG280 .2++28
?9' 82BE253 <:9B +28 8 8:552 ; 25380 32++28 ?92
.2B 29 +0 <2B8 +0 G3.' ; 2+2332 9A 528 =2BG28'
' #2BG28 ; G4 . 5 +280 =2BG28 ?9' 8:53 2 ; <+:RG28
< B + ' <= B ; . 2'LB 2BG28 <:3 JGB280 =2BG28 ?9'
82 . +3 E253 4 58 +28@ B4 58 23 8:53 G:5528 ' ; 5K
J2B' ' #2BG28 E9+5GB B28 0 =2BG28 ?9 0 <B 828 53G*
B 29B2 ; 253 :9 << ?9G28 25 3:< ?520 < 88253 <:9B
<B:<B28 ' \ 'J92B 8:5 428 .:9<8 23 428 !2889B28
' ! 9E 82 =2BG20 +28 =2BG28 ?9' 52 8:5Q< 8 93 +28
' =: ; ; 2 :9 9A 5 ; 9A 23 ?92 + ' .9+39B2 3254'
.:583 ; ; 253 ' 2A3 B<2B' +8 E 253 :G82B BG 8 58
G3942 ?92 + ' 4G.: ; <:8 3 :5 42 .2 ?92 5:98 <*
<2+:58 ; 9E 828 =2BG280 G3 3 5G.288 +B2 ' + 'B2K
<B:49.3 :5 428 <+ 5328 ?9'+2:B G3 253 93 +280 :'
T#@' '" S0 ' ' J' ' ' ; B.=2 89B 952
; 9E 82 =2BG20 +' +9 '283 BB E2 ?92+?92 .=:82 ?9'
' ; 8 42 ; 9E 82 =: ; 2:B Q+: .93 :5 3 BG2 4&952
89<2B83 3 :5 .: ; ; 952 '+ ' B 5.2 23 9A < R8 J2B*
; 5 ?928 89B =2BG2 ?9 'GJ B2 23 ?9' 'G3G 82 ; 2
< B + ' :94B2P .&283 25 E2B39 42 .2332 89<2B83 3 :5

F !

23 <B3 ' 8:53 42 ; 532 82 ; G+ 5.2 2B3 23 E2B ; 2 +
.:5E2B3 4 2BG2 23 42 +:B ,* AE '+LA 6 8' $9'
+: 253 @:9 53 89B 2BG2 ?9 ' E2B4 2
.B: '89B =2BG2 4B92 4:9.2 ; 253 82 ':92=: 3 1'
AAE ; ' '<923 :9EB2B 23 B2 :9EB2B 42 @:9B8 23 42
59 M 42 +29B8 23 42 =2BG28 = / ' " ' "N'
'4 J523 2 42 =2BG2 H952 =2BG2 ; J ?92I 258 9
:58 + '<:B3 B 283 9 :58 42 2E2 8 ' .: ;' 25
4 3 < 2.= 3 +2 @:9B 8 53 >2=25 52 +2 ; 28.B2 28
@" 253 3:98 @:9B8 428898 2E2 3:932 .: 2 2832B
2 , 4 E' 7%%' LAET 8' :9B 32+2 ; 242. 52
9+3 32+2 =2BG2 ' < & ' N7' LAE 8' :9B
=2BG2 E2B3 6' < B2B + ' 8 +2 H8' ; 5J2B1 ' 1 ' " '
1& # ' %6 8NB 2 < ' M ' $9'52 <: 53 H< ?92I'
25 =2BG2 52 <: 53 25 28< . ' ' ' O /
' <' CC' 'S 6 8 3 :4:B 53 ; : ; 2 4 8*
8RB 2 2B ' .: ; ; 95 .: ; ; 2 =2BG2 42 <B B 2 :
F' +2 R' E: 3 ; 8 3:9328 +28 =2BG28 42
+' 53*>2 5 '1!- ' 2?92+ 8 53
4:9.2 ; 253 828 <<B:.=28 +9'.:9<: 3 =2BG2 8:98
+2 < 24 ' <' NFF' .:3 52 :9 =2BG2 ' +'
B:R52 ?9 9.958 ; 5325 53 <<2+ 53<239 ; 5:9
@ # ' + E' 5 <' N 4 58 ' 9
.958 428 4 38 <B2M 8:53 ' 429A =2BG28 :5 5R'
<253 +2B ?9 +8 52 8: 253 9.=2M 429A :8'1!- '
/ - #' 3' <' 7 ' =2BG2 ?9 :5' .:J5:B3 :5'+'
4: 3 + 2B ' 8:5 4: J3 7 ' 5 :9B .= 94 52
.B: 83 =2BG2
-'c (!' 2BBR & # 3 X ++:5 A 3 # 5 93
& #; ' (!5 -(' # ' & # 3 / - #5 3 <:B3'
& #5 3 3 +' # 3 49 + 3' & # 'K # '< B +3 325 B
9 JB2.'b 8 -'< 33B2 B <:54 53 9 58.B 3 & #5'
?9' 82 3B:9E2 4 58 +2 Ec4 ' ' & #5 ' + ; 5J2 23
4 58 2A<B288 :5 A & #5!'/"5 ' 29 :< :'
G:29 8 G 25 5:9BB 8
? , ' QNB*GN =42/ # ' ' 4 =2B
G2B' :+28 =2BG228' L 28 <2BB9?9 2B8 5: ; ; 253
.=2E29A =2BG_ 428 .=2E29A .= 3 58 ?9 :5 '
3 42E25 B G+:548 25 +28 ; 233 53 89B =2BG2 2A6
<:848 9 8:+2 + <B28 <@98 29B8 +288 E28 4 2 9 6
; :52982' U
'Q=B*GN*+c I' ; :9 +228 23 5:5 GB
G2*Rc/ 5'-' 2B ; 2 42 .= 882' B:932B =2BG2 25
< B+ 53 49 8 5J+ 2B
-'# 'S] 8' B2 < 83B2 23 =2BG2R2B +29B
G283 + '/ - #' 3' <' NFC'
-' (!'< # '
3' # ' ' *=2*+ *5 / ' ' B2G 8 43 ?92
?9 :5 ; 23 ' =2BG2
-' (!'K #
' QGB*GN/ 5' ' L ' A<:82B 43254B2 89B
=2BG2' #2B=2B 42 +' 3: +2' L 2B ; 2 4 5. 2552
; B2.= +2B 2' <<+ ?92B 95 ; :B.2 9 42 3 . 52
4 2+4G:B2 9 <: 3B :9 4 58 4 93B28 254B:38 42
.2B3 58 5 ; 9A 32+8 ?92 +28 .=2E 9A +28 G:29 8 23
+28 E .=28 <:9B +28 J94B B 42 4 E2B8 ; 9A 25 K
8 53 89<<9B2B + '< B3 2
-'# 'O I 8' '<+ .2 :5 @:9832B :5 42E: 3
283: 3 G2+2 ; <+2 23 95 2 E2B32 23 =2BG42 M
' 'G
' K #
3' 'QGB*G2*B 2/ ' ' ! B.=4 9A =2BK
G28' ' 29 :4 :5 3 G+ 5.G B +28 . B28
-'# 'O I 8' '<+98 JB 542 J G2+2 ?9 ' 983
+:B8 6' : ; 2 283: 3 ; <:842 89B =2BG2B 2 H@+ 5328
<:3 J2B28I ?9 ' 8R E254: 3 :' ' %SS
' ' 1 '<B:E25^ 1
' Q2B*GG* / 8' ' =2BG2 .:9B32 23
; 2592 428 .= ; <8 Q98 34 89B3:93 25 <:48 2 23 4 58
+2 83R+2 < 83:B +/' H B:9<2 9I :98 ?9 JB 8 23
G2 9' ! 2 4:55 2M 8 58 .28820 9B =2BG2332 2< 882
5<+ 8 B 5:9E2 9 '3' 5 <' FF' :8
< 248 4 58 +2 8 3 5 :8253 :9+2B =2BG2332 :
,#!J' 1 '-> ' 7 ' +
-'# A ; 6 8I $92 2BG2+232 <: J5253 23 <B4
8:53 B E2B4+ D # ' L AE6 8' :9B ?9:' 3 4:53
4 ; 2 52 <9.2+2332 ' JB 53 4 5J+2B 42 8 ; :9B '
; $9' 82.=2B '8:9GM +2 < 4 .: ;' 2BG2332^ 283
JB 53 :+29B ' ' 'D ' 0#! B' " ' ; 7)'
- ' LAE 6 8' 2 ; G+ G+2 ; 253 89B +28 ; 25928 =2B
:23328 3 < 83:9B2 9A J B42B +29B8 GB2G 23328
! E N
' ' ; 593 '">& # 3 G:9BJ9 J5' #
S ' Q2B*G24 G24*M/ ' ";' 4 +
.B: 3 42 =2BG2' = ; <8 =2B=29A' :53B22 =2BG2982
-'# 'S 6 8' B4 ' H + B2J B42I 89M 4283B2
< B ; '95 E + =2BG48 1& ' " '<! '3AAE 9' LLA 96 8'
852+2 ; 253 .:9B 53 3:932 95 E: 2 =2BG:982 :
.,'@' # "' .! -(#!' <' "' LLAE 6 8' '?92
< 88 53 < B +28 . ; < J528 28 3B:9<2 9A 4 58 +28
.= ; <8 G2BG29A 'M33
-' (!' B:E25. 2BG:8 28< 'G2BG:8: <:B3 & #)'
! !' 3 +' # ! !:' 49 + 3' & # ! 7 '42 & # ' =2BG2

'# ' QNB*G *\ :*+ / ' ";' 2B ; 2 42 M::*
+:J 2' $9' E 3 < B ; ' +28 =2BG28 428 <B48
' 3' & # ' =2BG2 23 (! # ' = G 32B
' Q2B*G 2P B' 52 82 + 2 @ ; 8 9 <+9*
B 2+ A 82 + 2 ' 428 2B*G 4*M 25 :B4B2/ ' ' L ' 29
.:5E2B3 4 =2BG28 8258 ?9 ' 52 82 4 3 ?9 9 <+9B 2
; 253 9 ; + 29 428 2 9A 23 4 58 +28?92+8 +2 <: 8
8:5 82 B2 9J 2' L] 2B ; 2 B9B +' 29 :4 :5 .:5K
82BE2 =2BG2 <:9B +' 5:9BB 39B2 428 G283 9A'
58 +2 + 5J J2 428 G:3 5 8328 .:+2.3 :5 42
<+ 5328 42884.=228 23 ; 828 253B2 428 29 +28 42
< < 2B' 5 =2BG 2B 42 3B2532 JB:8 E:+9 ; 28 5* :+ :
?9 +' + 8848 ' 'I:J' 42 23 3' L B 2AK
3258 :5' :582BE4 25 =2BG 2B .:582BE4 253B2 429A
29 +28 42 < < 2B' '<2 9 42 : 82 9 JJ'< 2B
49 454J +I 42884.=42 23 : :582BE42 25 =2BG 2B
' B' '3' '<' ' '#2BG 2B E E 53 2A<B28K
8 :5 52A .32 < B + ?92+2 :5 428 J58 95 4.G 5
3 +:5 42 <+ 5328 .:582BE428 E2.' 8: 5 23 4:53 :5
82 82B3 <:9B 44 ; :5+B2B .2B3 528 .=:828 4 +. +28
' " ' #2BG 2B B3 . 2+ :9 8 ; <+2 ; 253 =2BG 2B
.:+2.3 :5 42 4288 58 ?9 ' B2<B48253253 428 <+ 5328
EB2 ?9 ' 3B 32 428 <+ 5328 ?9 ' 25 .:53 253 + '
428.B <3 :5 23 + ' J9B2' :98 24 ; 28 428 =2BG 2B8
.= 5: 8 428 J2:JB <= 28 .= 5: 828
H - ' E E +' L N]' 2 <B2 ; 2B E253B .9+2 428 5K
; 9A B9 ; 5 538 4 3 <+98 :B4 5 B2 ; 253 < 582'
N 2B ; 2 42 9.:552B 2' 9R 9 :9' . 5 + ?9 ' 82B3
'+ 'B28< B 3 :5 .=2M +2 9.:5
-'(' J8' B ; ' & .:B8 +2 83 28< 29 G *
J5 2B + 58 8 ' + 5.2 G 3 25 2BG 2B H =2BG2I
. !7 ' " ' 1 ' V C' LLA+6 8' + 8:53 3:93 428.2549 6'
32BB2 89B 2BG 2B D # ', B
-' (!'e ++:5 # 3' 49 + 3' & # # 7 '+ EB2
:= +28 =2BG28 8:53 5:3428 23 42.B 3280 42 & # '
=2BG2' K # #' 4 58 5. 25 B 5. +8 8 J5 2 + 29
.:5E2B3 4 =2BG2
_ 'Q 2BB= =*B / ' ' 2542982 4 =2BG28'
#2BG =B2 428 G +28' L 23 32 +2 ?9 ' B2.92 +2 42
=2BG2 <:9B + '5:9BB 39B2 428 G283 9A
-' (!'K #
'# ' Q B*G * =*B / ";' GB ; 2 4 4 .
3 ?92' $9' <B:49 3 42 =2BG2
' 'K # '23 +2 + 3' ## ' <:B32B
'# ! ' Q=B*G * :B* ; / ";' 2B ; 2 42
M::+:J 2' :+8 =2BG :B ; 28 <:+8 ?9 ' B2882 ; G+253
42 =2BG2 82.=2
-' (!'K # '23 !#
'Q B*G *E:*B / ";' L 6 $9' 82 5:9B
B 3 4 =2BG28' 2 .=2E + 23 +2 G.29 '8:53 =2BG E:K
B28' 2 + 3 428 2 ; 2+28 =2BG E:B28 283 3BG8*4:9A
'@' ' ']'@' ' 28 =2BG E:B28'
' 2B ; 2 4 253: ; :+:J 2' ; +2 42 .:+ .:<32B28 34
3B ; =B28' T
-' (!' 3' & # ' =2BG2 23 5!# # ' ; 5J2B
j' # 'Q B*G:5/ ' ; ' 2B ; 2 42 3 5529B
:932 9 5:5 3B 5.= 53 <:9B 44G:9BBaB +28 .9 B8
3' # 'Q B*G:*B *M '29B
3B *8 / ' ' 23 ' 2+9 .2+2 ?9 ' =2BG:B 82 ?9 ' 3
428 =2BG:B 8 3 :58' 5 G:5 =2BG:B 8 329B' 52 2A
.2+2532 =2BG:B 8 3B .2
' 'K # !# #
' Q B*G:*B *M *8 :5 25 E2B8 42
8 A 8R+ G28/ ' ' L 6 .3 :5 4 =2BG:B 82B' L B: ; 2K
5 42 32 <:9B 2394 2B 89B <+ .2 23 B2.92 + B 428
<+ 5328' > '89 E' ! ' 42 >988 29 4 58 8 ' 42B5 B2
=2BG:B 8 3 :5 23 @2 +' 3B:9E '8' 39 ; 9+392982 23 '
<29 93 +2 <:9B ; : ' ' ' 7 (' # '4'> ' " '
66' 7# '& # # ' L 28 <2B8:5528 ?9 ' :53 < B
3 2 42 .2332 <B: ; 25 42' =2BG:B 8 3 :5 < B.:9B93
+ ' :B 3 42 :53 52G+2 9' L 6 2 4288 5 4 952
< 2BB2 =2BG:B 8 2 Q25 .2 8258 :5 4 3 G 25 <+93 3 BK
G:B 8 3 :5/' ' 82 3B:9E2 428 . +:9A 4 58 3:9328
+28 < B3 28 49 ; :542 :5 25 4 83 5J92 ?92+?928
958 .: ; ; 2 .29A 4 JR<32 < B +29B8 M:528 +K
32B5 3 E28 42 @ 952 23 42 GB95 23 < B + '8 5J9 B 3 '
42 +29B8 =2BG:B 8 3 :58 %% ' 35' + 'E <' O
-' (!'K # !# #' q
c 'Q B*G:*B *M I "2/ ";' R5:*
5R ; 2 <B 82532 ; 253 598 3 4 BG:B' ' 2 4:.329B
= X' < B+2 49 ; BGB2 =2BG:B 8 '49 ; :53 5
' K - '3' '<'
# ' Q B*G:*B *M / 5' 5' +2B 4 58 +28
.= ; <8 B2.92 + B 428 <+ 5328' ' ; 5?9 3 ' 8'
.+ 882 <:9B +2B =2BG:B 82B '+ ' . ; < J52 23 <:9B
394 2B + ' 5 39B2 9 + 29 42 + ' + 5J92 428 5. 258
2 ; 58 % ' ,!7 !# ' $9' <253 82 B28:9
4B2 ' < 882B 428 ; :53 J528 8 58 =2BG:B 82B^ ' '
:988' ; ' ' ' .3 E2 ; 253 '> ' 3 ' ! ; 2 + '4:*
.=2882 4:9 B B2 42 :B3+ 54 95 25E: '42 <+ 5328
?92 @ E 8 3' =2BG:B 82B <:9B 2+2 9 ; :53 +
S' ' ' = ' " ' A , , ' ' ; B8 +CC:

-'# 'S 6 8' 582 ; G+2 428 < 5.=28 82B :923
328 G2.=28 23 93B28 583B9 ; 2538 B2?9 8 'G 25
BG:B 82B 'H #/'
' ' 52E' # !# #' 2 ; :3 283 G BG B2'
+ < B +3 3B2 :B ; '< B 952 .:5 98 :5 42 :B ; 28 23
42 8258 253B2 & # ' =2BG2 23 # !#' BGB2
' Q2B*G:*B *M29B/ ' ' 2B ; 2 *
; + 2B' 2+9 ' ?938 ; 982 ' =2BG:B 82B' 52 3B:9<2
4 =2BG:B 829B8
' 'K # !# #
' Q B*G:*B *8 / ' ' L 6 2+9 ' ?9'
*E254 428 =2BG28 2 ; <+:R 28 .: ; ; 2 ; 24 . ; 2538 ' '
283 4 + EB ' ' =2BG:B 832 95 .2B3 +. 3 4 2A ; 25 8 *
J5 '4 58 +28 .:+28 < B 3B:+8 2A ; 5 329B8 23 4 58
+28 @9BR8 < B 3:98 +28 ; 2 ; GB28' 29A ?9 ' 2A2B.253
+' <B: 288 :5 4 =2BG:B 832*G:3 5 832 +28?92+8 8:53
42 3:98 32 ; <8 25 <:88288 :5 42 E254B2 428 =2BG28
:9 <+ 5328 82B:53 8:9 ; 8 '+' E 8 38 23 58<2.3 :5
428 J B428 428 <:3= . B28 BB V '"7' 1!- '">P '
' :.3' CNC' '82 4 3 988' 9 ; 5 5' 52 =2B
G:B 832' L ' 2+9 ' ?9 ' .:55 3 +28 8 ; <+28 Q<29 98 3 '
25 .2 8258/
-' !' 5' '4 3 <254 53 952 G:552 < B3 2 49
AE56 8 .+2 # !# :' ! 8 + 8' 3 53 <B 8 ' + '
< 832 '@9B2 ?9 + 283 BG:B 832 '@!-/ ' -('
(# -' "N N' 9 E29A B2 .' BG:B 832 3 52
98 @ ; 8 ?92 G:9.=2B ' ' ! ' E B' Q4 58
3:9328 +28 4 3 :58 4:55 28 < B +9 /' 28< 8 25 :K
G 5 BG:B 832 49 B: ' :9 8 S + <+ 53 ' 25 N % +2
<B2 ; 2B . . ' :9 B:= 5 28 53B:49 3 42 ; B ?9 '
82<3253B :5 +2 25 B 5.2 >G9B5' " ' ']; '
"F%F
-'# 'O I 8' ! 242. 5 BG:B 832 5 3: ; 832
'NF ' 0
-' (!' :R' ' + ' ; ; 2 .:5 98 :5
R 53 29 + 29 <:9B =2BG:B 832 ?92 <:9B =2BG:B 82B'
5' '4 3 & # 7#:' : 3 ?92 39 8: 8 < 8329B 9 =2B
G29B 253258* ; : % F' 5' '4 3 988' & # :'
5' + 29 4 BG:B 82B E 8 3: 253 +28 G:93 ?928 428 4B:*
J929B8 =2BG 2B8 23 <:3= . B28 'H #/' '
3' # ' Q B*G:*B *832*B 2/ ' ' :93.2
?9 ' .:5.2 ; 2 +2 .: ; ; 2B.2 42 B=2BG:B 832 LL' :93 ?92
4 =2BG:B 832
# ' Q B*G9 =92/ :4@ #' 6 :9E2B3 4 =2BG2 '
2 < B253 :9BE +2 5:9BB + 4 58 +28 E + 28 =2BG928
:9 4 58253 428 < R8 5528 '+ ' = 932 .: 9B2 V
' ' (& ' ' ' @' ' 2B ; 2 B9B +' #2B
G92 32BB2 E J 3 +2 ?9 +2E 2 4 58 +28 < 39B J28
283 2 ; <+:R 2 ' ; :B28 +2 8:+ 4 95 E J5:G+2
' 2BB2 + J2B2 23 <29 <B: :542 ?9 ' 5 283 G:552 ?9 '
B2 428 < 39B J28' L #2BG92 B: 42 5: ;' 4:55
4 58 +' B2882 '95 .2B3 5 8:+ ?9 <:9B <B:49 B2
42 ; 542 428 ; 5 J2 ; 2538 < B3 .9+ 2B8' L '@' '
2B ; 2 42 :5429B' #2BG92 :54 53 BJ +29A 2 ; *
<+:R '4 58 +2 3B 32 ; 253 428 ; 52B +8 42 2B 9
= 9 :9B52 9
-'# 'S 36 8' 2A ' 'E2BB 'E:+253 2B8' B
3:M 283 =2BG9M +' 8253 2B8 $9 :5' 8923 H:5' ' .:9
39 ; 2 42I G 3B2 <:B <25 3 5.2 'M ' N AE 6 8'
23 38 B9 882 9A R 9B253 :54:R 58 :98@:9BM K
8 53 93:9B 428 <B2M =2BG98 5 4:9A ; 9B ; 9B2
? '& ' MM
' 'K # 3 <B:E25^ & # 7
3' # # ' Q= B*.=29B .=24*M / ' '
23 ' ' 9EB 2B :9EB B2 ?9 ' 3 . B.9+2B +28 E J:58
.= BJ 8 42 ; 52B +
' 'K #=7
3' # 'Q= B*\+ 5/ ' ' + '3 4: ; 2
$ 'h B* .:*3 *\3:*5 *\ / 8' '
B3 42 :B3 2B +28 <+ .28 42 B2 428 B23B 5.=2
; 2538 23.
' 'D <A: . 25.2 532 23 B3 42
.:583B9 B2
# 'Q B*\9* / ' ' L' 6 2B ; 2 49 <:+R
3= 8 ; 2' :;' 4 95 42 ; *4 29 +8 42 >9< 32B 23
. + GB2 < B 8' :B.2 23 < B 828 3B E 9A' >2 ?2 8 8
<: 53 9 . 2 <+ .2B 95 B 4 .932 95 5 5 B2 95
3+ 8 :9 4 95 + .=2 95 #2B.9+ ' (7 #! '
2 #2B.9+2 + 53 B: ; < '3:98 +28 982 9A
+7 # ' ' #2B.9+2 '4 8 B ; 2B .: +3 3 ; : 58 ?9 # <
<:+R32 ' 0& "# ' "' L ; + B2 ; 253'
#: ; ; 2 :B3 23 B:G9832' 283 95 #2B.9+2' + R '428
=: ; ; 28 G2 9.:9< <+98 B:G98328 ?92 +28 93B28
R' ' 988 ' 428 #2B.9+28 25 3 42 <258 28 ; 8 9
:54 .2332 89< B :B 3 '283 :B3 <29 42 .=:82 9 '
0& ! ' / - ! #' U7 ' 7' L 2B8:55 J2 428 8<2.3 K
.+28 :B 58 B2 ; B?9 G 2 #8' :B.2' #2B.9
42 + '3B:9<2' # 6 2B ; 2 4 83B:5: ; 2' :5832+ 3 :5
42 G ; 8<= B2 =:B +
-' + 'S 6 8 2 ; G+: 3 #2B.9+2 R 53 .929B
42 R2< B ' 6 WC' > ; 8 #2B.9+2 5 25
. ; G 33 3 429A .: ; ; 2 ' 2' <B:E2BG2 ?9 ' <:9B

[illegible]

[illegible]

B' 4 ' 3:M + ' .92B8 ; &W5' =2B .2' 2' 492+' 23' 4& B20' '
:B3' ?98 @ ' 52' 8 ' ?9 ' 4 B 0' ' 38 ' L M E6' 8'
$9 53' E:98 8+28' 254:B ; R0' + 8' .=2E29G.' ; 2' . : ; *'
; 25.2B253' ' =2B 882B0' C - / # ' 0' ' LLAE 6' 8 ' :98'
52' . : ; ; 54:58' < 8' 3' 5:8' .= 29M 4 ' 8 ' G2B 882B0'
' 0' 7C ' 9' ; =29B0' ; :5' . :9B J2' 8 ' =2B 8820'
9' + 29' 4 ' 8& <<+ 3 B0' 5 ' B0' NC ' $92+?92' < 2BB2' 28< *'
52982' 23' =2B 8842' ?9 ' 3:' < ; .3' 23' 28. :B.= ' .B92++2*'
; 253' +2' . :+' 4 ' + ' E2BJ20' 5 ' E0' C30' 5' 2983' 4 30' '
E: B' +2' G 3 ++:5' 428' .242 ; :5 580' ?9 ' .2' 5&283: 3'
?9G ; ' . :B<80' . : ; ; ' 4 ' ?92+?92' G2832' . :9B J2982'
?9 ' 8 ' G2B 88: 3' 23' 8 ' <B2< B: 3' <:9B' . : ; G 3B20'
! 0' ?# ' ' ' 5:98' :R:58' .B 2B' 4 ' 59 .3'
?92+?92' .=:9 50' :98' G2B 88:58' 4&28 B:R ' '
' H <B 3B2882@=2B 88 538 .=2E2+9B20'
50' CF0' # !
- ' (! ' :R ' 52 ; 88: P' <B:E25? ' # # ' & #)
Q#' # #3' <:B39J ' ## #3' 3 + ' ## " #
F ' QG *B+*8:5/0' W ' ; 0' HL ' 25B2' 4 ' ; ; *'
; GB28' ?9 ' 8 ' 5:9BB 88253' 4& 582.328' 23' 4 ' B9 380' 23'
4:53' + ' <2 9' 283' . :9E2B32' 42' < ?9 538' +:5J8' 23'
: 428' :B ; 48' 42' <:++8' JJ+: ; 4B 80' ; ++2' 428'
582.3 E:B28P' :5' R' 4 83 5J92' +2' = B 88:5' 42' 5:8'
< R80' # - (7 ' 7#! 7 ' + ' 2' B25 B4' 8 +3' G2 9*'
. :9<' 42' .G:8280' + ' = B 88:5' 5T25' 8 +3' ?9&9520'
4 8 253' <B:E2BG +2 ; 253' + 8' 5. 258' ' +' 8 +' 8 '
42 254B2' 8 58' . : ; G 33B20' 23' G+2882' 8 58' 33 ?92B0'
' U7 "#7 ' 30' 50' <V 5' G4B 88: & ?9 '
8&43 3' J+ 88 ' 4 58' + ' .9 8 52' 442:9EB 3' 952' <23 32'
; B ; 320' 25' 3 B ' + ' E 542' 23' R' 3' 828' :B49B280' '
' < ' ' ' J ' 23' ; + GB2 ; 253 ' 2B8:5G2' 4&95'
. B .3GB2' 4 . +2 ' LL 4@ ' 23' ; + GB2 ; 253 ' #GB 88:50'
GGB 88:5520' .G29M0' 4 . +20' B2EG.=20' ?9&:5' 52'
8 +' . : ; ; 253' <B254B2 ' ' ; 4 ; 2' B:J5 .' ' &G9*'
; 29B' GGB 88:5520' 7 ' ' # ' 0' N ' > ; 8' 42'
+ ' E 2' @2' 52' E:98' ' E9' 8 ' =GB 88:50' , C ' ' 4 58'
' S0' ' ! =7 ' LL ' #GB 88:5' 42' ! 4 J 8. B0'
+2' 325B2. ' LL #GB 88:5' 42' ; 2B0' :9B8 5 ' ' :B ; 2' 428'
=GB 88:58' 42' ; 2BE B 2G2 9. :9<' ' +252834& BB:54 8'
:9' 42' ?:55G8' . : ; ; 2' 428' G:93:58' :9' 428' 39BG 580' 23'
*4& <+ 3 8' . : ; ; 2' 428' JG32 9I0' 23. ' .2332' 4 E2B8 3G' 42'
:B ; 2' ' 3' 5 +3B24 GB25328' 425: ; 5 3 :58' <+98' :5'
; : 58 BG 3B B28P' :5' 4 3' +28' =GB 88:58' 25' 39BG 50' +28'
=GB 88:58' 25' JG32 90' 23. ' ' 1!#A ' - ! ' 0'
0' 5:32' ' ' : ; ?9&:5' 4:552 9' <: 88:58' 428' J25B28'
4 :4:5' 23' 3GG54:5 ' LL #GB 88:5' G+ 5.0' :9' G BG23'
G+ 5.0' + BE2' 42' . : . . 52++2 ' LL #GB 88:50' 5: ; ' E9+*'
J B2' 42' <+98 233B8' . :?9 ++28' 49' J25B2' 428' B: .=2B8 '
' 8<G.2' 42' .= ; < J5:5' B ; 29A0' G:5' ' ; 5J2B0' & ")'
-7 ' # - ! 7 ' ' LL ' ' #GB 88:5520' :9' ; B*'
3B20' .=25 ++2' 49' J25B2' G: ; GRA0' ! @' ! ; ' % '
:B8?9&25' 82' <B: ; 25 53' 4 58' +2' <:94B 2B' 5:3B2'
=GB 88:552' E25 3' ' B25. :53B2B' +2' . 4 EB20' 2++2' R'
<+:5J2 3' 42' 5:9E2 9' 8 ' 3G32' 23' 828' <B2 ; GB28' @ ; ' '
G280' . : ; ; 2' + ' <B2 ; GB2' : 80' ' #5 ' C60'
- ' LL ' 2B ; 2' 42' ; G. 5 ?92 ' :92' ; :3B .2'
E2B3 . +2' <:B3 53' 428' .=2E ++28' :9' ; 253:55238' 4 8K
<:828' . : ; ; 2' +28' < ?9 538' 4&95' =GB 88:5 ' >L"6' 2B ; 2'
42' J92BB2 ' BB GB2' 32' 4&952' <:93B2' B ; 2' 42'
?9 53 3G' 42' <: $328' 42' 2B' ?9&:5' ; 23' 9A' <:B328' 428'
E ++28' 23' ?9 ' 3:9 ; 2' 89B' 95 ' < E:3' <:9B' :9EB B' :9'
:B ; 2B' +2' < 88 J2 ' LL 5. 25' 32B ; 2' ; + 3 B2 ' #GB 8K
8:5' :94B:R 530' 28<G.2' 42' G: ; G2' GGB@88G2' 42' < K
?9 538' 42' 2B' ' I' 882 ; G+ J2' 42' <: 5328' 42' 2B'
?9&:5' ; 23' 9A' JB ++28' <:9B' 2 ; <G.=2B' +28' E:+29B8'
42' +28' 28. + 42B' LLN&' ! :B.2 9' 42' G: 8' 82BE 53' ' B2'
GJ:9332B' + ' E 882++2' + EG2 ' ' T ' :9+2 9' J B5 ' 42'
' , .=2E ++28 ' <:9B' G.B 82B' +28' ; :3328' 42' 32BB2' 4 58' +28'
.= ; <8' + G:9BG8' #F6' 2B ; 2' 42' 9 ; 832 ' J2' J B*'
5+23:93 253:9B' 42' + ; 28' 42' 2B' + :5J928' 23' 95' <29'
+2A+G+28' 82BE 53' ' B ; :52B' ' + ' . :B42' +28' .=2 ; 5228'
3B:<' G3B:+328' <:9B' ?92' + ' B ; :529B' R' <9 882' ; :5*'
32B ' ' 76' &25E2+:<<2' G< 52982' 42' + ' .= 3 J52 '
' 3:6' : ; ' 4&95' B9 3' 428' 5428' :B 253 +2842' + ' J9B2'
23' 42' + ' JB:8829B' 4&952' <: B20' ; 8' . :5E2B3' 4&952'
G. :B.2' =GB 88G2' 4&G< 5280' .&283' +2' B9 3' 49' . :B:88:+' ; 9*'
B ?9G ' - ! - ' 7# (' + ' 5:5 .G28 ' LL++6 : ; '
4&952' 5. 2552' . : 9B2' 25' .=2E29A' ?92' 82' 8 253'
+28' 2 ; ; 28 ' ' H+2' . 5 B4' 8 +29B' =9<<GID ' 3:932' + '
3G32' 2: G2' 42' G2++28' <+9 ; 28' B:988280' 4G+ G28' 23'
8:R29828' B2+2EG28' 89B' +2' B:53' 23' +2' 8: ; ; 23' 42' + '
3G32' 25' 952' 3:9 2' .G2E2+92' ?9 ' <:9BB 3' E: B'
82BE ' 42' ; :4G+2' ' + ' . : 9B2' 25' .=2E29A' 4:53' 5:8'
4 ; 28' E 253' 95' ; : ; 253' 4:<3G' + ' ; :42' 8:98' +2'
5: ; ' 42' =GB 88:50' %% ' A ' 3 ' ME 0' < ' NN ' &283'
58 ' ?9& E2. ' +29B' ; 94 3' =GB 88:5' +8' ; 2' B253' 952'
3G32' ; :583B929820' ' , &" " ' " > "7 ' ' 1 !) '
! ' ! ' 8 ' @ 6' 2B ; 2' 42' . :583B9.3 :5 ' 5' =GB 8K
8:50' 82' 4 3' 4 ' GB ?9280' 428' ; :2++:58' <+ 380' +:B8*'
?9& 8' 8:53' B 5JG8' 42' .= ; <' ' + ' < B3 2' 89<GB 29B2'
4&95' ; 9B ' :82B' 428' GB ?928' 25' =GB 88:5 ' 28' ; 9B8'
32B ; 528' 25' =GB 88:5
- ' # ' S 6' 8 ' ' < 2BB2' B2 9J2' 8' =2B .9580' +)

1 ' " ' < ' 32 ' 952' H+28' :B ; 548I' 8&25' .+:253'
H42' <2 9A' 42' G:29 I' 393' 25E B:50' 9 ; ' 82' .2' 983' 95'
=2B ?:50' ' 0' NF"% ' 28' G:B28' 28<B 3' 23' +9 ; 0'
' E +2' B3' HGB + I' 3:932' 23' +23' ; 28:58P' 9B8' G 3 '
23' =2B . =:58' H8:B32' 42' :B3 . 3 :510' < ' ; 80'
< ' 8220' 4 58' ' LLA 56' 8 ' ' < 2BB2' :=2EG2283
B2 9 M 8' =2B ?:580' 0 , ' h6' 9.952' :B*
B G+2' = B2' $9 ' <+98' 283' J92' 23' <: J5 580' $9 532+ '
283' 8' . :8328' @: J5 580' $92' 52' 82B: 3' 958' <2+ . :58'
2 < 98' 42' E2+98' =2B : :580' ' < ' " F ' LLAE6' 8 '
2584& B ; 28' ?9 ' R88: 253' 42' B 8' 3:93328 : 8' ?9&+8'
E:9+: 2530' =:B8' 4 ' B 8' <:9B< ++2BP' ?9 53' +8' B2*'
E25: 2530' +8' 283: 253' 988 ' 3B:9882M H.= BJG8I' 4:'
G 258' ?92' 3' +2' =2B ?:5' 42' <: ; ; 280' , ' 0 '
' 3$' ' 3$$ ' " C ' LL AE 6' 8 ' 2' 42=:B8'
23' 428 8' 42' 8 ' . :?9 ++2' H42' &:9B8 5I' 283' 3:93' J ; R'
4&95' <:+' 49B' 23' <: J5 53' . : ; ; ' . 2+9 ' 4&95' =2B 8*'
8:50' 988 ' +24 3' <: 88:5' 8& <<2+2' =2B 88:50' :'
-((' F' 23' 70' ' ' 95' =2B 88:5' 4 58' +2' E253B2P'
8& +' 52' G: 30' +' +2' < ?920' : : 5 ; ' 9B ' B2M 0G2*'
B 88:50' +' 82 ; G+2B ' G B:50'
' , ' e ++:50' ' ' ' , I' 5 ; 0'
3GB28:50' 5 GB28:5P' # 5 930' * ' , * ' < *'
. B40' * ' * ' JG52E ' $& ' <B:*
E25? ' ' ' 28< J50' ' <:B39J ' , '
49' + 3 5' * , ' :9' * , ' =GB 88:50' ?9 ' 283' 42'
; G ; 2' B . 52' ?92' +2' JB2. ' A5<0' =GB 88:5 ' &28< J5:+'
' 23' 93B28' B 255253' 4 ' 7 ' + ' B 5? 8'
' E 253' 4&552' :B ; 2' 9J ; 253G20' *
3' # ' QGG*B *8:*5&+0' ' 0' :R ' 6 '
56'
+ 0' c ' Q=G*B *8:*5G0' 5G2/0' 6'
' ' 2B ; 2' 42' G+ 8:5' 2' 4 3' 4&95' . 3' :9' 4&95' 9K
3B2' 5 ; + B ; 88G' 23' . B:9<+' LI']' +2B ; 2' 4&= 8*'
3: B2' 5 39B2+2' $9 ' 283' . :9E2B34&G< 528' :9' 4& J9 +*'
+:58' JBG+280' +2A G+280' 5: ; GB29A' :9' B <<B: .=G8
* ' K"#A ! -
* ' 6 - ! ! ! "' Q=G*B *8:*52*; 5/0' 6 ' ; '
3 3' 42' .2' ?9 ' 283' =GB 8:55G
- ' # 0' ! J F ' 5' <23 3' B 88:5' 23' =:BB < + 3 :50'
:9' =2B 88:552 ; 253' 25' 3:93' +2' . :B<80' , ; ' 3
' ' <
3' # ' Q / Q=G*B *8:*5G/0' / ' ' 2*'
4B2882B' 8:5' <: +' :9' 828' <+9 ; 28' 2' 92:5' 82' =GB 8K
8:552 ' ' ' 2B ; 2' 42' ; ?:552B 2' #GB 88:552B'
5' ; 9B0' +2' B22BG< B0' +2' B2. :9BB B' 42' ; :B3 2B' ' 4 '
<+ 3B2' 5' 4 3' 988 ' GGB 882B0'
- ' # 0' S 6' 8 ' &95' < B+2B' 25B:9G0' 4&95' <: +' =2*'
B 88 55G0') ' F ' " $9 54' :5' + 8: 3' ?92+?92' .=:82'
42' + ' 8 5.32' 8.B 39B2' 42E 53' +9 ' H95' <:88G4GI0' +'
82' =2B 88:5: 30' 82' 8:9+2E: 30' 23' 82' 3:9B ; 253: 3'
G 25' <+98' ?9& 9< B E 530' '
' '
V ? ' QG*B *3 *G+&/0' 6' 2B ; 2' E 2 ++ '
?9&:5' ' 288 RG' 42' B @295 B' :53' :5' <293' 42E25 B'
<:8828829B' < B' 4B: 3' 42' 89. .288 :5
' 6 ' O I' 8 ' 253' + EBG28' 42' 32BB ' ' &2832B+ 50'
=2B 3 G+28' ' .2+9 ' ?9 ' <B2 ; 2B 0' ' 0' 0' "
' ' (! '
6 7 ' QG*B *3 *@&/0' 6 ' ' LL 6 2' ?9 ' E 253'
< B' E: 2' 42' 89. .288 :5' B2' 95' JB 54' GGB 3 J2 '
&= G 3' ?9&+' 293' 89B +9 ' 93' 8:5' 829+' GGB 3 J20' '
' ' +' H 2B5 B4' 42' e 2 ; BI' ; 29B3' 42' ; + 4 2' '
+ ' +29B' 42' 8:5' J20' +2' 8' L9 ++23 P' +' + 88 3' <:9B'
GGB 3 J2' 8:5' B ; 22' 23' 828' . :5?9G3280'
$&> " ' - ' $ ' F 7 ' LL #GB 3 J2' 82' 4 3'
988 ' 4&95' 3B 92' ?9 ' < 882' 42' B: 8' 25' B: 8' 4 58' 952'
; G ; 2' ; ++2' ' :98' +9 ' E2M0' 4 328*E:980' B2549'
&=GB 3 J2' 42' 828' <GB280' . : ; ; 2' 8 ' +28' G: ; ; 28' <:9*'
E 253' G3B2' GJ9G8' 23' <:88G4G8' 58 ' ?92' 428' 32BB28' 23'
428' 3B:9<2 9A0' 2' ; ; 29G+28' BG2+80' . : ; ' 2' 32BB280'
. 9+ GB2 ; 253 ' 28' ; ; 29G+28' BG2+80' . : ; ' 2' 32BB280'
; 8:58 ' ++2' H>94 3=I' G3 3< B 32 ; 253' G2++20' 238:5'
; B ' +9 ' E 3' + 88G' 4 ' JB 5428' B .G28820' 95' JB 54'
5 ; GB2' 42' 82BE 329B8' 23' 428' =GB 3 J28' : ' 2++2' E 2'
42' 5: ; GB29A' 3B:9<2 9A' 42' G289 8' 23' 42' ; :93:580'
' ' 1 ' , ' E ; 0' O ' B42M*E:980' +29B' 4 3* +0'
42' E254B2' &=2B 3 J2' $92' 5:98' :93+ 88G' 5:8' < K
B2538P' 5' 3BG8:B' 283 . 2GG' 424 580' ' - 1 '
0') ' ' 2B ; 2' 42' @9B 8<B9425. 2' ' +' 4&GGB 3 J20' 82'
4 3' 428' G 9A' ' B2532' <2B<G392+2' :9' ' 3B=8*+:5J32B ; 2
' #GB 3 J2' G:4 +0' =G53 J2' ?9 ' G3 3' 3259' 25' 2'
23' B2+2E 53' 4&95' 89M2B 5' #GB 3 J2' B:39B 2B0' =2B K
3 J2' <28824G' ' . :58' :9' .258 E20' :9' 93B28' .= BJ28
' J ' 2' ?9 ' BB E20' . : ; ; 2' BB E2' 95' =GB 3 J2 '
:98' 5& E2M < 8' + ' E 2' 58' ?9&95' GGB 3 J20'
0 4 ' ' 2' .B ; 2' 4&952' ; GB2' 283' 95' <28 53' B*'
42 9P' :9B' ; 283B 832825 538' ?92+' B29A' =GB 3 J2 '
) C 0 ' 0' ! :9B3B4 J5242E:980' E: +:5' =2K
B 3 J20' ' ' " ' ' +' "6' 5 83R+2' 42' & .B *'
39B20' &=G 3 J2' 49' 2 J529B0' +28' :G@238' <BG2' 29A' ?9 '
G3 253' 4 58' +2' 32 ; <+2' ' >GB98 +2 ; ' ++2' 8&G3 3' 25K
. :B2' 2 ; < BG2' 42' &=GB 3 J2' 49' 2 J529B0' 23' E 30

25+2EG' 42' 8:5' 32 ; <+2' .2' ?9& +' R' E 3' 42' <+98' <BG2' 29A'
<:9B' 2552= B' +28' 32 ; <+28' 42' 828' 4:+280' ' K '
! - ' Qc9E ' 3 ' E 0' < ' "0' 4 58% ' LL B' 2A325K
8 :5 ' ' 32BB2' 8 53 ' 2' 2 J529B' B2 982' 8 58' 4:932' '
; 28' 5 +4G+ 3G8' H. &283' 8 53' :9 8' ?9 ' < B+2I' + ' . :5K
8:+ 3 :5' ?92' @& E 8' 3 53' 8:9G 3G20' 42' 4G+ EB2B' 8:5'
=GB 3 J20' ' 0 - " / # ' - ' + ! 7 ' LL J ' &=GB *'
3 J2' .G+28380' +2' B:R 9 B2' 428' . 29A' 28' ; G.= 538'
5& 9B:53' <: 53' 42' < B3 ' D=GB 3 J2' .G+28320' ' &=GB *'
3 J2' 49' 2 J529B' & ; ; :+2B' <:9B' 8:5' 5: ; ' ; ' 23' <:9B'
8:5' =GB 3 J2' H4 ' 2510' &95' 25 53' 4D+8B G+' E: + ' +2'
EB ' < B3 J20' ' < &' 0' ' LL B:E2BG ' B: ; 2882'
42' JB 54' 5&283' < 8' =GB 3 J20' 2&283* *4 B2' # 52' 93'
< 8' 3B:< . : ; <32B' 89[' +28' <B: ; 28828' 428' JB 548
' 2BE .2' 42' JB 54' 5&283' < 8' =GB 3 J20' .&28 * *4 B2'
:5' 5&283' < 8' 3:9@:9B8' 889BG 42' B2' :B3952' 9<B2J'
428' JB 548I' 23' 988 ' 4 ' B 832B' ' +29B' 82BE .2' 3'
82BE .2' 4& 93B9 ' 5&283' < 8' 95' =GB 3 J20' 0' # - '
5 ' '
- ' # ' S 6 0' H5' 5:98' 94B I' ! 53' 4283B: 3' 25*'
. :53B2B' 23' ; 53' 93B2' < 88 J20' 58' ?9& +' 5:98'
3: ++2' B 25' 42' 5:' H5:3B2I' 4B: 3' 2B 3 J2' # 7 ' 77
' Jy ' 2A' 283' 88 8' H 88 GJ2I' 25' 8:5' 8 53' B23 J2'
+ ' 32BB2' 8 532I0' (' . ! - (#! ' < ' ' 5. :B'
2 H.2' G+ 8:5I' <:B38' . +' ?9 ' G2B 3 J8' 25' 0' D # '
. AAA ' 3' 988 ' +:B' 4: 3' :5' H 9A' 25 538I' B254B2' . :532'
42' + :B' ; 92G+28' 23' 42' +:B' =2B 3 J28' E + 580' ?9 ' +2' 3 253'
<:B' 2980' 2+' 3 58' ?9&+' 8:53' 8:98 J G H ; 529B8I0'
' (' ! ' &.B 3 J2' 8' 8:53 . :M28' ?9 ' 52' <:253'
283B2' ; 928' 23' ?9 ' E +253' < B' 5G28' 8 8 J529B8' ' ?9 '
+' 8:530' ' SS 0 ' $9 53' + ' < 28' 5 83' 4&2B 3 J22'
; :B3 8' ?9 ' 283' 4D J+ 820' ' ' +2 ' B52' :&283'
; 2' 32' <:9B' 3 98@:B8' 82@:B52B' 5' .2' B:28.=2 53'
:542' ?9&25' E: 3' 3:93 G283:B52B0' ! 28' 8' G 25' 23' 8 '
G2+' 8& ' 4: 3' 2+' 3:B52B0' $9&25' 8:5' 4B: 3' G2B 3 J2'
<9 882' 3:83 B23:B52B0' ' ' ' , ' ' LLA E6' 8 '
28' 42+233 . :58' . :B<:B2+28' :53' 988 ' . : ; ; 2' <B 8'
< B' =2B 3 J2' +2' 5:5' 42' 42+233 . :50' ' < & '
' (- ' a ' 2' 93' JB 54' <3G ?9 54' ' +29B' . :5E 53'
9A' = G 3 538' 42' + 8' 2A<9+8G8' < B' 4:9 B4I'
J92B< B' +29B8' G2 9A' =:832+80' +29B8' =2B 3 J28' Q<B:*'
<B G3G8I0' +29B8' ; 29G+28' 23' +29B8' E: BP' . B' B 25'
5&2 ; <:B32B2530' % ' ' ' YYY ' >2' E:98' 4E2B3 8'
?92' ; :9B8' 42' 2 ; ; 2' 5&283' < 8' =2B 3 J2P' 23+28'
R ; 253' 9@:9B4&=9R' 95J' = : ; ; 2' 23' 42 ; 95' 95J'
9 B20' 0 # ! #' ' 3' E 0' < ' " ' LL E 6' 8 ' B3 2' 42' .28'
32BB28' 82' G ++: 3' ' 2B ; 2' :9' ' B2532' 9A' < 9EB28'
. 3:R258' ?9 ' 5& E: 253' <: 53' 4&G2B + J20' '
H# (=7 ' + : ' 2' @2952' 4E: . 3' =2B 3 J2' <2B490'
" ! ' 2' 5&283' < 8' =2B 3 J20'
- ' , A ' . "# #3' <B:E25P0' & # / 3' 5. ' 28<'
& # " / 3' 3 + ' # " / / ! ' 9' AE 6' 8 G.+20' :5' <B:*'
E:5. 3' & # / ' 4 3' +8JB E20' <' F
6 , * " ' ' QG*B *3G0' 3G2/0' # ' "' 4&=GB 32B'
5' 4: ; 52' =GB 3G' 428' 29A' LL J ' ! 8' 4 8<:82B'
4&95' 8 5J' ?92' @& ' B2P9' 8 58' 3 .=2' E 53' ?92' +2'
8:9 ++2B0' +' 93' ?9D:5' ; 2' & BB . =2P' >&25' 4: 8'
. : ; <32' 9A' 29A' 4253' +' 283' GGB 3G0' 3:932' +29B'
; ++20' ' + ' <:83GB 3G0' ' @ - (& ' 3 '
, * " , ' QG*B *32/0' 5' 5 ' LL 6 2. 92 + B' 952' 89.K
. 288 :5' ' + GGB 32' G2 9. :9<0' ' D ' ' GGB *'
; G 2' G3 3' B .=2' 23' E 3' 49' ; GB 32P' + ' =GB 3G0' +'
283' 4:52' 3B28*B .=2' 23' 283' 4&95' 3B28*JB 54' ; GB 32P'
: + ' 3:9328' +28' 2 ; ; 28' 25' . ; < J52' <:9B' & E: B'
<:9B' J + 530' 23' 3:9328' +28' +28' <:9B' G< <:9829B0'
' ' B:2BG2M 428' 25 538' $9 ' <9 88253
=GB 32B' 42' E:98' 25' 4B: 32' + J520' ' + " / ' E0'
F ' =' 4: 3* 5' =GB 32B' 42' .29A' ?9&:5' 88 88 523'
5 ' .6 " ' 0' ' 28' < B2538' 829+2 ; 253' G3 253'
JG80' . B' +8' 5&=GB 3 253' < 80' ' X " / ' '
' 2E25 B' <B:<B G3 B2' 4&952' . =:82' < B' 4B: 3' 42' 89.K
. 288 :5 ' +' o ' =GB 3G' 4&952' ; 8:5 ' J ' : 0' @2'
5&=GB 32' <: 53' 428' 4 + GB2538' 49' <B 5.20' ' -)'
' ' 7 ' +' ; 2' 82 ; G+2' ?92' & ; :9B' ?92' 5:98'
E 58' <:9B' ; :5' <2B2' 52' 4: 3' < 8' G3B2' <2B490' 23'
?92' 5:98' 42E:58' <B 5. < +2 ; 253' =GB 32B' 42' 3 2.*
3 :5' ?9&+' 5:98' < : ' 30' <:9B' 5:98' ; 2B' 25. :B2' <+98'
. :B4 +2 ; 253' 8& +' 283' <:88G+20' ' + ' 7#' '
!#' " ' ! - ' # ' 2' E: B2' 5@9832' = 52' +' 52' 5&' < 8'
=2B 3G0' ' 0& "# ' E0' ' 2' 4G8 B' 4&=GB 32B' 42' 8 '
J+: B2' H4& .= ++2' 4 58' .2332' J92BB2' H42' B: 2I' ; &25*'
J J2 3' H ; : 0' 3:<3+G ; 2I' ' 89 EB2' +28' B2.80' % '
, " ' (- ' +2' H.2332' 5:G+2882I ; ' 5?92' 23' 8&2+2' 53' 25'
5:980' 428' ?92' 5:98' GB3:58' 49' 5: ; ' 8 58' =GB 32B'
428' E2B398' ?9 ' &:53' B2549' ++983B20' ' 0 ' (#'
H# - " ' " ' ' 1 ' LL 6 +' 8&2 ; <+: 2' .3 E2 ; 253' 988 '
&283' 952' ; 8:5' ?9&+' =GB 3G2' 42' 8:5' <2B20'
' " ' , &" ! &#' AA 9 ' LI J :98' E2M =GB 3G .2' 5: ; '
42' :8 29A0' ' @ # ! # ' ; 0' ' ' H << 98' + 98'
4 98I' E 3' =GB 3G' 42' 8:5' <2B2' 3' + 3 .=2 ; 253' 5K
E :+ G+2' <:9B' +28' 532BG+8' 49' 8G5 30' ' . "5! '
#! ' + E ' E ' GB2' E29J+2' 23' G BG 322' ; < 3:R G+2'
; GB22' 9EB280' E:98' 2++ 3* ' ; 233B2' 9' @:9B' 95

#

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25 53 $9 ' 5+ 'B 3 3 42 ?9&955 B2982 54 K
J25.2 '0 - '49 & 7# 7/ ' J+: B2
9 <B '49 8 5J ' 28 25 538 =4B 3 53 & 5 ?9+34 49
<2B2+ C4" C
-'# M56 8' +2 3 2 ; ;2+' 4:5 3 42 8 '
32BB2 & B23 D#7 < ' LL A 56 8' ' E 253 /
G 25 ?92 +' <2B28 23 +2 H+ ; 2B2 ; 253 3 53 95
42 +:B 25 58 <+98 428 93B28 ?9& +' E:BB: 253 ?9& +
<2983 283B2 G2B 348 49 3:93 +2 +:B
&2 B HG: BI ?9' BB 32 8 ! 258 42 .2+9 ' ?9 ' 283 <+2J2
23 42332 283 32598 < B + ' B 8:5 42 + ' 42332B 2 42
B28<:54B2 +' 253 H42 +9 ' 25 B <:54B2I 23 < 28 +2
.: ; 2 93B2 42332 488 ' 42 >4B98 ' ! 2M +28
G2B 32B 8 H 28 25 538I 82 39 G 25 +28 4:.3B 528 $92
82 39 +29B +288: 28 4&:B 23 4 BJ253 4 M ; 528 I ' -
(' , ' 7 ' LL ME 6 8 ' R 53 =2B 34 6' + ' 82 *
J529B 2 42 8:5 29 <2B2 < 'N ' 9 5& 8 < 8
+28 ; :B32+8 E:B 82M 58 $92 39 8 =2B 32M 42
<2 52 23 42 8:9. 2 E 2 ++2882 23 42 ; :B3 ?9 ' 283
+29B EB R < B3 J2 BWR'@2' 95 B2B2 9
?92+ + ' .:9839 ; 2 4:552 3:98 +28 G 258 42 5:83B2
; 8:5 < B ?9:R ; 2 E:+ 53 @2952 23 <29 =2B 34
; 2 89 8 ; 8 4 89 EB2 +28 E2539B28 ' !# ' " '
H# ('_' .ME 4 98
' B:E25@ ' & # #3 28< J5 ' & # " #3
<:B39J ' & #" #3 3 +' # " # 3 49 + 3 ' & # " # ' 42
& # ' QE:R ' 58 &=+83:B ?92 C #' ' 8:9
E253 +2 8258 42 B254B2 G4B 3 2B
3 ' 6 "* , ' QN*B *3 4 3 G*B&/ 6 ' ; ' 23 '
']' 2+9 .2++2 ?9 4& <BG8 + ' + : =4B 32 :9 ?9 '
4: 3 G2B 32B 42 ?92+?9&95 ' #4B 3 2B 5 39B2+ 4J 3 G2
$9: ?9&43 53 8:B3 8 42 + ' G:92 +8 H.2B3 58 GE:B 8
52 8: 253 6 G 25 4 B2 < B2538 42 <2B8:552 +8
.B: 253 4 B2 G4B 3 2B8 42 3:93 +2 ; :542 '
' (!7# ' '" (' >2 +2 8 B: ' 42 :53 23 ; :5 829+
G'B 3 2B ' ' (! ' E ' >2 52 E29M 4&G4B 3 2B8
?92 E: B2 : ; 2 :9 E:98 - ' @ # !# ' E A 2. :5*
5 8 +&G"B 3 2B 23 +2 EB ' +8 4& +B22 ' ' 9 ' +28
' 4<+:B G+2 G4B 3 2B 42 .28 B: 8 3B : ; <G 538
? & ' 4 ' &G2B 3 2B <B:4 J92 < R2 42 89<2BG28
954B ++28 23 44E:B2 +2 B2832 ' ' 9 ' +28
G: ; ; 28 < B +28 <:8328 4 +2B2538 < B +28 + 3B28 23
< B +28 89..288 :58 82 B.J B4253 .: ; ; 2 G2B 3 2B8
+28 958 428 93B28 23 .9+3 B253 < B .23 534B43 <25K
4 53 3:93 +2 .:9B8 42 +29B E 2 95 428 B 82.B23 23
25E2+:<< ' 42 + ' ; :B3 4& 93B9 " ' $92 ; 2 82B3* +
4& E: B 952 E 42 .:=:B32 &G4B 3 2B8 ?9 ' 3:9@:9B8
E2 +2 23 4:B3 ' ; ' <:B32 2 J258 ?9 9B23 53 +28
.+2 8 49 .: B2* :B3 ! 2 443254B:53 ; :5' + 3 <293*43B2
E 53 ; ' ; :B3^ ' A / ' :5 @2' 52
.:55 8 < 8 42 <+98 .G B ; 53 <+ 8 B $92 42 E: B
4&=4B 3 2B8 952 3B:9<2 + J42 2 ; 53 25 532B4 3
23 + ' ; 52 ++:5J42 B2 95 +:5J 3283 ; 253 :9
< +28 43:5528 ' 5 +29B + 882 95 G:58: B E2. ' 95
< 24 42 52M ' ' :98 +28 428.254 538 ?9 ' E *
E 253 8:98 + ' <9 88 5.2 49 <_B2 ?9&:5 <<2+ ' =4B *
3 2B8*8 258 (' < 'MME ** #4B 3 2B G25 2*
. B2 .2+9 ' ?9 ' ..2<32 4 89..288 :5 8:98G454 .2
4& 5E253 B2 ' #4B 3 2B 42 .: ; ; 88 B2 G4B 3 2B
583 394 <:9B B254B2 + ' 89..288 :5 6 952 93B2 <2BK
8:552 ' ' #4B 3 2B <B48: ; <3 E:R ' %
' 4@2.3 E2 ; 25 ' B 32+2 283 + ' J253 =2B 3 GB2
:98 +9 ' + 882M 428 ; :5.2 9M 4&:B +2 <+ 53
9 42 953 +2 G4.=2B :9 + ' G 4B2 ' ' & '
')' ' ' ' 82 4 3 < B B <<:B3 6 6 .G:82 4:53
:5 = B 32 ' # B 3 2B 4&952 JB 542 :B3952 ' 5 + '
B2J B4 + ! ! B 2* =2B2821 25 8< J52 5:5 < 8
.: ; ; 2 952 5 532 ; 8 .: ; ; 2 95 5 53 . B
&283 58 ' ?9&:5 R <<2+2 + ' <B 5.2882 ?9&:5 B2. :5*
5343 .: ; ; 2 G4B 3 2B2 42 3 53 42 B:R 9 ; 28
A #),&"# ' + ' .B ; 2 4&25 E: B 4 <:9 + 2 G B 3 2B2
Q49 3B452@ ' D# ' ' LL J 2 ; :53B2B +2
4 J92 =2B 3 2B 42 + ' J+: B2 42 828 5. 3B28 ' 28 429M
8R++ G28 <B4. 29828 $9 ' :53 2582 ; G+2 E:3B2 5 : ; '
Q :B94L 2B:53 H <BG8 E:3B2 ; :B3I 42 3:93 E:3B2
B25: ; ' 28 G4B 3 GB28 J+:B 29828 E: ' <75# '3 '
< ' ' ' 283 54 &25 53 49 ; B .+2 #2B 3 2< 49
8 5J 4&95 ; B3RB 'CK ' ' 8 ' LL . 2
4 3 <:9B 25 53 6 . 982 ?92 +28 25 538 8:53
+28 G2B 3 2B8 5 39B2+8 ' 2 ; ; 2 2 +9 ' <: 53
4:552 4&=4B 3 2B ' +283B 8 B2 52 428 ; M:528
E:9 ' ' +2M 54B2 ?9&2+2 82 .B:R 3 4 J52 42 4:5*
52B428 G2B 3 2B8 ' 8:5 2 ; < B2 'U ' 1 ' ! '
' 3 5 4&G4B 3 2B 5& E: 3 <: 53 $9 ' <:B3 3 .= 98828
23 <:9B<: 53 ! 8 + E + 952 G2B 3 4B2 +2 8 58
3 .=2 23 :B3 253 4B2 ' #/ ' E9 ' &2 ; <+B2
E 52 ; 253 42 ; 542 95 G4B 3 2B ' D# ' ' Y '
! ' ; 3+2 52 .B 53 B 25 3 53 ?92 42 ; 2 E: B 95
<23 3 G4B 3 2B 23>2 8 3:93 ; :5 <:88 G+2 <:9B +29B
4:552B .2 .= JB 5*+ ' H B ' 8. '
' '@ ' ' #2B 3 2B2 +2 95 ?92 ?9 ' 4: 3 G2B 32B
4&952 JB 542 89..288 :5 ' 2332 G2+2 E 93 ; 29M
?92 + ' <+98 JB 542 G4B 3 4B2 42 B 5.2 8 E' F'

<+9< B3 422 B .=28 G4B 3 GB28 < :9B ?9 LL &4?9 3 G+2
5 39B2 82 ; G+2 E B2 42 828 B .G28828 6 ; 289B2
' ?9&2+ 28 8:53 .: ; G+428 4 ' .2++:8 42 + ' :B3952 6 :
' H# ' C ' # ; 2 42 .=2+ 29 43 3 B 5.G2
=4B 3 4B2 2&283*4*4 B2 B.=2 + 42 23 ; 988 42
*8 ' N %C ' ' 4B 3 4B2 5 : ; ' 4:554
89..288 E2 ; 253 4 <+98 29B8 <+ 5328 25 8:9E25 B 49
G:3 5 832 &#4B 3 2B LL B:E2BG2 ' B2 4 + '
E29E2 23 9M =4B 3 2B8 2&283*4*4 B2 + ' B2 4
<+98 29B8 < B3 28 + 93 ?9& + B4<:542 4 <+98 29B '
<2B8:5528
-'# M96 8' 53 ?9&25 B 5.2 ; :9B93 + ' B: 8
8 58 =2B 3 2B ' @ B ' E ' L A E6 8 &283 H+ ' +2<B2I 952
; + 4 2 .:53 J 2982 23 =2B 3 2B2 . B 2+ 2 < 882 4&95
4 93B2 23 25 =2B 3 J2 ' ' LL :/ 3 8 ' 3
E2: 253 H.29M 4& EB29MI 8' E: B E:9+:253 +29B
@2952 =2B 3 2B H2&283*4*4 B2 ?9 ' 325 3 +29B E +2 25
=4B 3 J2 = B+28 42 E BB2 7 I ' ' C ' 3
' ME 6 8' &=2B 3 2B 4 <+ 5 &283 4 4 B2 =2B 3 2B 8 ; K
<+2 5&283 32 9 4 .?9 28.2B 9 3283 ; 253 49 4 3
42 953 23 .2+9R ..: ; <+ B 25 .2 ?92 +2 3283 329B 9*
B: 3 4 8<:84 :93B2 23 < B 428898 .2 ?9 +29B 283 <2B*
; 8 < B + ' 4 332 .:9839 ; 2 1 !7 ' / " - "# ' < ' % "
' B:E25^ & # #' # #3 28< ' ' &)'
" #!3 < B39J ' & #" #!3 49 + 3 ' & # " # 7 ' 42
& # " # ' =2B 32B
3 ' ' Q4*B *3 4/ ' ' ! :B.2 9 25
<: 532 + .=2+23 4 3 ?92 .&283 952 .:BB9<3 :5 <:9B
89B 3 8B6
3 ' ! ! ' Q4B*55 5*4 4/ :9 ' *$ *
8 ' ' :B32 42 .:5 B4B 2 :B ; 42 25 CY*
< J 2 E2B8 +2 AE 6 8 4.+2 .:53B2 +2 ; 29B3B2 23 +2
< ++ J2 23 ?9 ' 93 <+98 3 B4 :BJ 5 842 4 ; 5 83B *
3 E2 ; 253 ' W
(! c8< J5 ' & # - -" "' B 32B5 34 42 & #)
-! ' B4B2 49 + 3 5 / # -7 ' B4B2
! # ! ' Q4B* ; * ' B:*4 *8 ; &/ ' '
6 2B ; 2 42 34B 3:+:J 2 ' 495 :5 42 ?92+?928*
958 428 . B 234B28 428 429A 82A28 4 58 95 82 4 5*
4 E 49 ' 2B ; 2 4&G 83: B2 5 39B2+2 ' 495 :5 42 '
429M 82A28 .G2M .2B3 58 5 ; 9M 428 .+ 8828 5 4*
B 29B28 23 4 58 .2B3 528 <+ 5328 LL 5 4 3 988 G2B*
; <=B:4 2
' :R ' # G
6 6 ' Q4B* ; * B:*4 * / 8 ; '
; 2B ; 2 42 ; R3=:+:24:* 2B8:55 J2 4 E 5 8
42 ! 2B.9B2 23 42 4598 LL 2 4 3 42 83 3928 53 ?928
.:92G428 4 58 +28?92+28 82 3B:9E253 .: ; G 5428 +28
:B ; 28 23 +28 G2 9348 42 &=: ; ; 2 23 42 + ' 2 ; ; 2
&=2B ; <=B:4 32 42 :+R.+432 43 3 3B28*.4+2GB2 4 58
& 53 ?9 32 LL ' B 2A3258 :5 43B2G9 ; 5 9?92+
:5 33B G92 +28 429M 82A28 ' < 2982 ! ; 2 42 :9B *
J5:5 43 3 84B2 ?9& 4 ; ' E + 434 =2B ; <=B:4 32
.: ; ; 2 +28 <B2 ; 2B8 G: ; ; 28 49 4 E 5 + 3:5 '
' & ' ?" ' LL 6 2B ; 2 42 34B 3:+:J 2 54 E 49
=9 ; 5 ?9 ' B4?5 3 ?92+?928*958 428 . B 234B28 428
429A 82A28 ' &:5 G& ' 9.95 3 E4B4 9 89@23 428
=2B ; <=B:4 328 23 + ' <+9< B3 428 89@238 ?9&:5 ' .B9
43B2 4 58 .2 . 8 5&43 253 ?92 428 2 ; ; 28 %%
K ' - ' .= ' ' LL J ' 9 + 5J J2 B 5? 8 GK
M BB2 =2B ; <=B:4 32 2 ?92+ J25B2 32 B2 4?9 *
E:?92 ; 94 32 9 ; 94 3^ ' @ ' S9 ' LL 2B ; 2
4& +.= ; 2 ' 2 4 3 49 ; 2B. B2 ?92 +28 +.G ; 8328
B2J B4 253 .: ; ; 2 898.2<3 G+2 42 82 ; 9+3 <+ 2B
.: ; ; 2 .:5325 53 25 8: ' +2 ; +2 23 + ' 2 ; 2++2 '
' " ?" ; 7 ' 2B ; 2 42 M:+:J 2 $9 ' ' +28 429A 82A28 '
:9B?9: ' 95 93B2 5 ; + 283* + =2B ; <=B:4 32
8 58 <:9E: B 54 5 ; : 58 82 4. :542B +9 * ; 4 ; 2^
' 1 ! - ' " (!# / ' ! #/ ' 1<75 ' % .- ' 4 ' 52
4 58 4* (' LL 2B ; 2 42 G:3 5 ?92 ' 2 4 3 4&952
<+ 532 ?9 ' B495 3 +28 429M 82A28 4 58 952 ; ; 2
+29B ' 58 +28 28<4228 42 <+ 5328 +28 <+98 .: ; ; 9K
528 +28 429M 82A28 8:53<495 8 89B 952 ; 4 ; 2 29B
' + ?92+2 :5 ' 4:554 +2 5 : ; ' 42 29B =2B ; <=B:K
4 32 2*
-'# A9 6 ' &25 42 ; 542 6 ?9 ' &254: 3 .: ; *
< J52B =2B ; : B:54 398 ?9 ' :3 5 39B2 4&: ; 2 23 42
; 2^ 23 @2 B28<:58 6 + ' < B3 2 4:53 + ' ' <+98
+ 5 ' " ; 7 ' %% ' AE 8 ' 28 =2B ; B:4 328 :9 5K
4B:JR528 .&283 ' 4 B2 ?9 ' 25 5 ; 28 ; 2 .:B<8 :53
429M 82A28 ' 23 < B3 53 8:53 <<2+48 25 5:83B2 5*
J92 B 5@ :82 G: ; ; 28 23 2 ; ; 28 ' #2B ; B:4 32
; 8+2 ' 2 ; ; 2 =2B ; B:4 32 #2B ; B:4 328 ?9 '
528:53 5 ' &95 5 ' & 93B2 ' 1N '
' ' B:E25. ' & # #! " 3 3 + ' # #!)
" !3 42 < <: B: <2B8:55 J2 ; R3G:+:J ?92
R 53 +28 429M 82M2 " 42 6 << W #2B ; 48 23 & ?&<:*
%W5 259B Q+ 43 3 +8 42 ! 2B.9B2 23 42 4598/
' # ! ' Q4B* ; 2* &/ ' ' 2B ; 2 4&=2+ ; +5*
3=:+:J 2 25B2 42 E2B8 6 8 5J B.9J2
? , 8 "*L ' Q4B* ; 4*529*3 * \&/ " ; ' 2B ; 2
42 <= +:+:J 2 $9 ' 532B<B432 +28 32A328 8 2B48 & B3
=2B ; 45293 ?52 #@ ' ' &=2B ; 45293 ?9:8 2B42 :9

8 ; <+2 ; 253 B=2B ; 45293 ?92 +& B34& 532B<B4323 W
+ BB28 8 2B48 LL &G25545293 ?92 82 4 3 988 25@9K
B 8<B9425.2 42 & 532B<B43 3 :5 428 8:9B.28 49
4B: 3
' 6#+<3 5E242WR 532B<B432B 42] <<*5. !2BK
.9B2 ' . 982 ?92 .2 4 29 283 +2 4 29 42 + ' < B:+2
! ' Q4B* ; 48&/ ' ' LL 6 2B ; 2 42 8.9+<K
39B2 ' +52 <:B3 53 952 3432 42 ! 2B.9B2 LL 2 4 3
25 J454B + 4&952 83 392 42 ! 2B.9B2 LL ' #2B ; 48
3B 8 ; 4J 832 2&283*4*4 B2 #2B ; 48 3B: 8 :@8 JB 54
<2B8:55 J2 9?92+ :5 33B G9 3 :52 3B28*= 932 5*
3 ?9 34 23 95 + EB2 .: ; <:84 4& 4428 B2+ J 29828 23
<= +:8:<G ?928 42 8:9B.2 4JR<3 2552 23 JB2. ?92 .2
+ EB2 283 <:834B 29B 6 &4B2 .=B43 2552 ' LL ' & B3
4& #2B ; 48 58 ' 4 3 4& #2B ; 48 3B 8 ; 4J 832 + ' < 2BB2
<= +:8:<G +2 & +.= ; 2 ' LL 2 ; 54B +4 #2B ; 48 32
; 2B.9B2 ' ' 42 & 53 ?92 ++25548 +2 ; 54B + 9 42
&4+4E2 9 JB4 42 & B <+98 82.:9 <+98 5 ; 42 .: *
* ' " ' 7& ' ' " 6 3B2 4952 JB ; *
; B2 42 > ; 28 # BB 8 JB ; ; B 25 5J+ 8 ; :B3
25 CF ' + 3B2 4&95 B2.92 + <4B :4 ?92
#! -7 ' LLN ' 2B ; 2 4& 83B:5: ; 2 ' ' M63 .=2 42
+ ' +952
' 6c<L PW ! 2B.9B2 ?9 ' B2<:54 9 5K
8.B 3 # 4 # ' .= 25 .4+2832 +8 42 # '
.:549 8 53 +28 ; 28 428 ; :B38 ' +29B 42 ; 4B2 42*
; 29B2
' # ! ' Q4B* ; 4*3 *8 *34/ ' ' $9 + 34 42
.2 ?9 ' 283 .+:8 =2B ; 43 ?92 ; 253 ' =2B ; 43 . 34 .: ; K
<+232 4&95 << B2 +
# ! $ ' Q4B* ; 4*3 * \&/ 6 LL+0 2B ; 24& B*
.=4:+:J 2 ' :+:5528=2B ; 43 ?928 .:+:5528 89B ; :5*
3228 4&95 =2B ; 48 LL 2B ; 2 4& B.= 32.39B2 ' :+:552
G2B ; 43 ?92 .:+:552 ?9 ' ' 952 3432 4&=: ; ; 2 :
+ 29 42 .= < 32 9 ' LL 6 $9 ' << B3 253 9M 4:.3B 528
4& #2B ; 48 3B 8 ; 4J 832 ' . 25.2 <= +:8:<=32 =2B ; 4*
3 ?92 EB28 G2B ; 43 ?928 ' :8 ; :J:5 2 G2B ; 43 ?92 '
6 $9 ' << B3 253 ' + ' 8. 25.2 49 JB 54 :29EB2 '
+ ' .:55 88 5. ' 42 + ' 3B 58 ; 93 3 :5 428 ; 43 9A '
& +2= ; 2 ' LL ! 242. 52 G2B ; 43 ?92 :9 8< J B ?92
; 442. 52 89B3:93 .= ; ?92 4:53 :5 89<<:8 3 ?92
+28 ; :R258 42 ; 4B 8:5 ?9&2+2 2 ; <+:R 3 E 253
434 3B:9 48 4 58428 + EB28 4 #2B ; 48 LL ' 2B ; 239B2
=2B 543 ?92 2B ; 239B2 < B 32 ?92 &:5 :G3 253 25
8 53 :54B2 +28 G:B48 49 E 82 ?=2 :5 E293 .+:B2
.28 2B ; 239B28 E 255253 42 & B3 =2B ; 43 ?92 :9 +*
.= ; 2 ' ' << B2 8 G2B ; 43 ?928 << B2 +8 4:53 G
.+439B2 283 < B 32
3 $! ' Q4B* ; 4*3 * \2* ; 5/ , '
2B ; 2 42 .= ; 2 ' 2552B 95 E 82 G2B ; 23 ?92 ; 253
L2 8.2+2B 42 8 ' <B:<B2 ; 3 4B2 < B +2 ; :R25 49
29 5 ?92 B 25 5&25 <9 882 8:B3 B 5 ' 8&25 44J *
J2B ' ' B 2A3258 :5 ' 5 E 82 283 =2B ; 43 ?92 ; 253
2B ; 4 +:B ?9 + 283 .+:8 42 ; 5 4B2 ' 52 < 8 <2 9
; 233B2 253B44 42 & B 23 ' 52 B 25 + 882B 22G <<2B
42 .2 ?9& + .:53 253 ; 4 ; 2 +28<B 5. <28 +28 <+98 E:*
\3 +8 ' ' B 952 93B2 2A3258 :5 + 82 4 3 42 3:93.2
?9 ' 283 G 25 2B ; 4 52 2543B2 =2B ; 43 ?92 ; 253
2B ; 42 L J ' > ; 8 B 25 42 8 =2B ; 43 ?92 ; 253
G:9.=4 H?92 4& J92882 9I 25 + 42 5 5.28 5 ' 42
8 5. < G+2 4&R B 25 253254B2 ' % 2 ' C
' ' + , ' 23 +2 89 A2 ; 253
' Q4B* ; / ' ' :R ' ' # '
M ' # ! ' Q2B* ; 5/ ' 2.3 329B 4& #2B ; 8
=4B43 ?94 49 6 8 4.+2 ?9 ' 4 8 3 29 .:B<:B2
! ' Q4B* ; *5&/ ' ' L 6 5 428 5 : ; 8 E9+*
J B2842 + ' ; B32 G+ 5.=2 Q ; ; ; 4B28 4 J 3 JB *
428/ 4:53 + ' <2 9 ; B5 3 952 G2+2 ; 9BB9B2 '
G2+2332 ' ?9292 5: B2 8& <<2+2 =2B ; 52 23 B:82+23
=2B ; 52 +:B8?9&2+2 283 G+ 5.=2 B:82+23 +:B8?9&2+2
283 B:9882 :9 @ 95 3B2 ' $9:4B9< ' 3 ' -- ' < ' MM '
52 =2B ; 52 95 . 83:B 95 @2952 8 5J+ 2B 4238
42 +29B ; ++2 23 < B3 53 8 58 :B3952 58 &286
<: B 4&25 2?94B B 952 $9 334B253 +29B :B43 +29B
43 5J +29B = ++2B %% ' - 1 ' 5 ' LL H :9BK
B9B2 32 E2. ' 42 ' <2 9 4&=2B ; 52 ' :8 ; J 83B 38
:53 G 25 .:559 .2 ; R832B2 H<:9E: B 42 & ; J 5*
3 :5I +29B8 B:G253 B:9J28 +29B8 =2B ; 528 4:53 '
8@2 ; ; ++:33253 25 ' = 38 :9BB28 ' 0
" , ' & - / # ' 44 ' 7 ' 54:882B 4*
. B+ 32 23 82 :9BB2B 4&G2B ; 52 ' # ' E '
58 8:B3 B 42 +2 B8 + 38 <+98 4:9A ?92 +29B8 =2BK
; 528 5 ' = , ' ' ' J ' 52 B:G2 4&=2B ; 52 952
55:.25.2 8 58 3 .=2 ' LL 2552 42 G+ 8:5 52
428 429A :9 ; B28 . ; ; 2 +2 E B28 & 93B2 2&283
95 .= ; < 4& BJ253 82 ; 4 42 " ' 3B 5J+28 42
8 G+2 ' 28 4928 42 B23 J52 <:B3 253 4&=2B ; 52
' ; ' E9+J B2 49 2452 . < 3 52 8:B32 42
.:?9 +2 4 8253 .2B3 58 9329B8 3 54 8 ?92 4& 9*
3B22 :53 95 .492 . < 3 52 23 5 .492 =2B ; 52

-# M 6 Y ' 2 ' ' 32++2 ' + ' 3432I B2:54 23

G+:542 .B 520 +98 e 52 +2 B:53 ?925&283=2B ; 520
-$' ' ' CW' S 6 B <8 :9BB 84&2B ; 520 %
0 ' C ' 9R 23 8:5 4283B 2B 3:93 =:9884 42 3B28
528 B ; 5280 ' '# .='N 'LLAE 6 8' 9
.952 : 8 9A :8828 42E +:R2 :9B 3B:9E2B '428
J 8328 428 :9 5280 28 G2B 88:58 :9 428 e 5.=28
=2B ; 5280 ' ' ' A
-' (!' B:E25^0 28< J5' , B
3 +' T ' 49' + 3 5' B
; 5 250 < B.2 ?92 .2332 8:B32 42 :9BB9B2 E25 3
4& B; 5 2' 5 4 8 3 988' 4@' 23 89G83
! 0 ' QNB*; *5 0 5 2/0 <:B30 " '
4&=2B ; 52B' LL 6 :9BB '4&=2B ; 52' &283 H+2 .:9EB2
.=2 I' 952 .: 9B2 G 8820 42 8 ; <+2 3: +2 42 #:+
+ 5420 :B3 +:5J920 ; 8 <+98 .:9B32 42 G2 9.:9<
?92 +' ?9292 G2 ; 4542 42 + 'B:G2 H42 E29E2I0 8A
8 !' 0 C' ' 0 2B ; 2 42 G+ 8:5' 2.28 =2B ;
5'280 < '.'4:53 +2 :54 283 4& BJ253 ; :92G234 42
5: B' >& ' <B 8 95' + :5 G2B ; 540 ?9 54' @& 'E9 ?92
.2 8:53 5:8 E4B 3 G+28 B ; 280 6 '= ' '
S$' & 1 'N :.3' MB 'LL F6 2B ; 2 42 ; 54J2'
+M 52 =2B ; 5420 G +M 52 <B48253 53 428 3 .=28
5: B280 8 ; 9+ 53 .2+2 42 + ' :9BB9B2 4&G2B ; 52
'# ! 'Q4B* ; *542/0 ' ' 8<422 42 <= +452
'# ! 'Q4B* ; *54/0 : ' ' :9BB2B 4&G2B ; 52
-'# 'SE 6 8' 29A 42+ '>:9882+ 5 2B2 428.25498
49' ; 28 ; 2 283:.' :53 42<9 8 =2B ; 54'+29B'+ :50
'20 C
-' (!' # -
! Q 2B* ; *54*3&/08 ' :R'
j' ! 'h4B* ; *5 *3&@0' 8' ' 2B ; 2 42 e
8:5' :54' G+ 5.'3 .=234 42 5: B0 E2.' ; 4+ 5J2 42
B:9J2 4 58 .= ?92 3 .G2 5: B2
_ ! 0' ' ' :R'
! 0 ' ' :R'
3# ! ' 'Q 2B* ; :*4 *\ /' :9'# ! '
Q4B* ; :*4 * /0 8' ' : ;'4:5540 4 58 +2 .: ; ; 2B.2
42+ '4B:J92B 20 '428 39G2B.9+28 ?9 '8:53 <<:B348 49
2E 53 < B ! B82 +20 23 ?92 G2 9.:9< <258253 <B:
E25 B 4&952 28<422 42 2:+2G ?92 'LL 9882 =2B ;
4 .32 :9 9A G2B ; :4 .3R+20 5: ;' 4:554' 9A B= K
M: ; 28 82.8 42 B 8 39G4B29A 42 > 554
-'# ' !J8' 9' + 29' 49' 8 G 5' :5' <B254B '42
+ '<:9+4B2 42 G2B ; :4 :32 GB98+420 # ' '
-' (!'T <9: A*AE :E0 ?9 532 29 +20 42 T <Q% @
!2B.9B20 23 AA9 :30 4: J3'
3' ! ('Q4B* ; :*4 *\3 * /0 ' ' :R
? ;
j' #! 'Q4B* ; :*@2*5 5/0 8' 'LL ' 8K
. <+2 4&#2B ; :J4520 ?9' E E 325' B ?92 9' .: ; K
; 25.2 ; 253 49' 5 6 8 4.+2 23 ?9' B2@23 3+ ' B 5 34'
' 6 & 6' :42 G2B ; :J45 250 89<<+4 ; 253 @:934' 9
:42 JB4J:B 25' < B' +2@9B 8::589+32 #2B ; :J252
3' ! # ' Q4B* ; :*JB * 2/0 ' ' ' 28K
.B <3 :5 42 + ' <+ 5432 !2B.9B2
' "U ' #2B35480 !2B.9B20 23 R<4' 23E0 44.B B2
3' 'Q4B*5 5*4 2/0 ' ' 2B ; 2 42 G:*
3 5 ?92' 25B2 42 <+ 5328 4& ; 4B ?92 42 + ' ; +2
428 + 9B 5428
'QG4B*5 *N*B&/0 6 2B ; 2 42 2G B9B
J 2' 9' << B3 253 9A =2 ; 28' LL .' G2 ; B20
<:B3 :5 49' <4B 3: 52 ?9' 82 <B:+:5J2 8:98 :B ; 2 4.'
8 .' 9' 42E 53 428 < B3 28 G2B5 428' LL G B9BJ 25 G2B
5 B20 .G B9BJ 25' ?9' 8&:..9<2 49' 3B 32 ; 253 428
=2 ; 28' LL 54 J28 G2B5 B280 G 54 J28 4283 548 '
.:5325 B' +28 G2 ; 28
-' (!'
'QG4B*5 2/0 8' ' 2B ; 2 42 .= B9BJ 2' 9
; 29B <B:49 32 < B' + '8:B3 20 G:B8 49' E253B20 4&952
582 53283 5 +20 4&952 <:B3 :5' 4&4< <+: :50 :9' 4&952
< B3 2 4&95' E 82432 G4: ; 5 +' 2 E E28 23 B2?925
328 33'928 42 ; 28 B43253 :58 82 .: ; <+ ?94B253
E2.' & 5.: ; ; :4+34' 5:9E2+2 4&952 G2B5 2 ?9' ; 2
3:9B ; 253 3 42<9 8 ?92+?92 32 ; <80 8 58 ?92 @2 89882
?92 2&25' 43 3 9520-'9' ' :'LL 449 B2
952 G2B5 20 B2 B253B2B0 ' & 42 49' 3 A 80 4 58 +2
E253B2 +28 < B3 28 8:B3 28' LL #2B5 2 43B 5J+420 =2 ; 2
4 58 + ?92 +2 +28 G:B48 42 &:9E2B39B2 82 B2882BB253
W9B + ' < B3 2 4.= <<420 + '82BB253 23 R' <B:49 8253
95' 43B 5J+2 ; 253' <4B2B 952 =2 ; 2 43B 5J+42'LL B
2A3258 :50 3:932 39 ; 29B :B ; 42 < B' +2 44<+ .2 ; 253
4&95' E 824B20 :9' 4&952 <:B3 :5' 42 E 824B2 ?9' 8&4
2G <<2 42 8' . E 34' 5 39B2++2 < B' 952 :9E2B39B2
?92+.:5?92' #2B5 2 49' <:9 ; :5' #2 ; 2 49' .2BE2 9
-' # 'S 68' 249 8 53 952 G BJ520 8' :5' : 3
428 E2538 .: ; ; 2 95' J BJ:9 +2 ; 2530 :5' + '@9J2' 5K
3283 5 +20 '$
' B:E25^0 23 28< J5' '3 +' '
49' + 3' '=2B5 2' ' 8&283 4 3 @98?9& 9
ME96 8 2.+2' $9: ?92 G 25' :B3 5.: ; ; :42 &952
G BJ52 0 'H 'E P +' 43 3..5 :B ; 2 ' & .
.2539 3 :5 49' + 3 5 A ' ?92' 5&25
283 ?92 +2 . ?92

3' 3 0 'Q=4B*5 *40 42/0 " ;' :B32 < B' =2BK
5 2' 52 582 4& 53283 5' =2 ; 42' 2 3 A 8 3 B253B2B
+28 < B3 28 G2B5 428
' 'QG4B*5 4/0 ' ' 2B ; 2 42 ; B 52'
!:BB2 9' 42 G: 8 .R+ 54B ?92 898<2549' < B' 952 <:9
+ 2 23 <2B24 42 3B:98 4 58 +28?92+8 < 88253 +28 <23 32
.:B4 J28 4283 548 '8:9325 B' + '3: +2 4&952 32532
3' # S0 'Q=2B*5 2 +0 29*M&/0:4U' 2B ; 2
42 .= B9BJ 2' $9' 283 5.: ; ; :42 4&952 G2B5 2
-' (' !J F' 5' J:93329A0 95G2B5 29A0 '
1A' 3R
-' (!' 3' & ! 7 '42 & #- '=2B5 2
'Q=4B*5 *:* &/0' ' ' 2B ; 2 42 G:3 5 *
?92' 23 32 <+ 532' +29B8 E2B4 +3B280 ?9&:5' <<2+2
988' 39B?923320 =2BG2 9' . 5.2B0 & # ' / N
' ^ Q< B:5R.= 428/
-'# 'AE 68' #2BG2 9' 39B:0 <<2+42 988' =2B
; :+20 ; 2 32BB2 8 G+:552982 23822G20 , ' ' '
4 /
' 'K ' ' . 982 ?92 .2332 <+ 532' '434
2 ; <+:R42 25' . 3 <+ 8 ; 2 .253B2 .2332 2.3 :5P 8&
25' 283 58 0 & # ! '4 58 '42 2BB28 82B 3 952
932
3' ! 'Q=4B*5 *:*3:* ; 2/0 ' ' 2B ; 2
42 .= B9BJ 2' <4B 3 :5' 42 + '=2B5 2 43B 5J+42
' 'K '23 :<50 5. 8 :5
'Q=4B*59* /0 ' ' : ;' 4:554' '428
82.3 B28 .=B43 258 ?9 '82 4 83 5J9293 < B' 952 JB 542
<9B234 42 ; .29B8' 5' +28 <<2+2 988' B2B28 ; :
B E28' 9' =:@ 5432 =2 ; 932' 52 @2952 =2B5932
-' (!' ++2 ; 'K ## -&7 #' 42 K ## -&7 '+:
.+34 42+ '= 932 98 .20 : '+28 B4B28 ; :B E28.: ;
; 2524B253' :B ; 2B 952 .:+:5 2 93:9B 49' E ++ J2
42 23=2+84:B' <<9B325 53 9' .: ; 32 42 I 5M254:B
3' # ! 'Q=4B*59*3 *8 ; &/0 ' #' :.3B 52
428 =2B59328 +29B ; 5 2B2 42 E EB2 ?9' 283 952
8:B32 42 .: ; ; 95 8 ; 2
'Q4B*:4 5/0 ' ' ' 258 ?9 0 .=2M
+28 >9 80 8 253 <B: 288 :5' 4&=:5:B2B + ' ; 4 ; : B2
49' B:' #4B:420 ?9' R 3 B2G 3' +2 32 ; <+2P + 25' 283
3 ; 253 :5' 4 58 & E 5J +2 42 8 53 ! 33G 29' 23
4 58 .2+9' 42 8 53 ! B.
3' +' + BB 'Q4*B:* *8 *34/0 ' ' $9 + 34' 42 :2 ?9'
283 =4B:0 ?92' &G4B: . 34' 49' ; 4B 32 82 44.+ B20 ' '
57C)# A&!! '4 5'
-' (!' K #"B=7
+ +3* +$ 'Q4*B:* *\:* ; *\&/0 " ;' $9' 3 253
42 &=4B:+?92 23 49' .: ; ?92' 2 93B 5' 283 95' <:2 ; 2
=2B: *.: ; ?92' 2' ! / ' " '1& # / - ' " -)'
' .: ; <:8 3 :5' 49' A+ 6 8 4.+20 283 95' <: ; 2
=4B:+*2: ; ?92
' 'K #(?=7 '23 (! =7 'K8#! (!b! C '
; :3 53B:49 3 25' BM 'K '"7' &' # 'E 0 < AY
, -* 'Q4*B:* *4&/0 ' ' '<+3B2 ; :9B2982 25
2B8 : : ; <:842 8:98 +2 5: ;' 42 ?92+?92 =4B:8 :9
4&95' <2B8:55 J2 ; 29A' !:5' <23 3 + ' # B<2 ' 3
952 B4<:582 '& GG4 42 5.4P .23 GG4 42 5.4
E 342B 3 .2 ?9&:5' <<2+20@2 52 8 8 <:9B?9: 0 952
=4B:+42 '828 ; : 528P !'42 + ' B<2 3 B4<:54B2
95' ; : 52 ?9' 889B4 ; 253 E 93 ; 29A ?92 0 GG40
! $' + '1& -!-' N ; B8 CNC' 5' 584B 53
4 58 +2 C #(7# '952 =4B:+42 42 : B42 90@2' +8 825
3 B'.: ; G 25' +2 83R+2 42 .2 @2952 <:432 <<B:2G 30
< B' 8' ; 4+:4 20 8 ' <9B2340 8' JB .2 23 8' 5:G+28820
42 + '<2B 2.3 :5' 42 & B30 'C 'E
' '0#<X3^0 @<X34:.0 2 ; ; 2 42 =4B:80 =2K
B: 520 42 <WWJ0 =4B:8' &283 E 42 ?9' ' ; J 54' +2
<B2 ; 2B .2 J25B2 42 <:48 20 <B25 53 <:9B 89@23 +28
+233B28 428 2 ; ; 28 :9 ; 33B28828 428 =4B:8 ' +29B8
; B 8 :9 ; 538P + ' 53 39+4' 328 < 4228 & #!B" '
:&283 *4 B2 =4B 528P .&283 .2 ; :3 '>C#! " '?92
5:98 E:58 443:9 ; 2 42 8:5' 8258 <B:<B2 <:9B +9'
B2 8 J5 +2B 95' J25B2 42 <:48 2 ', 0
'Q4*B:* *5&/0 ' MM 6 2 ; ; 2 ?9' '95'
JB 54' .:9B J20 952 JB 542 5:G+2882 42 8253 ; 2538'
& + 5& <+98 42 =4B:80 + '428=2B: 5280 '? '
290 ?9' B <<:B32 3:98 828 .:582 +8 '+' .:5K
82BE 3 :5' 42 8' 8 532 J+ 82 23 ?9 0 4.:54' 25
; :R2580 2 ; <+: 2 3:9328 .G:828 '828 58 . .=4280
8&283 82BE' 93B2 : 8 428 .= 8328 33B 3842 429A 8 +9K
328 =4B:+528 <:9B 44+ EB2B 828 44+28 428 ; 58 42
+29B8 2552 ; 80 'K - '">?-/ ' :552M ' 29
! ' 2.3 :58 'E:98 <:9BB2M G B4 ; 253 ; 4<B 82B
+ ; :B3 ' 2A25 ; +2 42 5:3B2 =2B: 52 2GB43 25520
7(& ' " # ' +2E4' 4 58 +2 82 5' 4&952 .= 832 =4
B: 520 ' & "# 'E0 ' '.4+4GB2 ; 4+ 2 42 # 5 90
+ 54JB E2 4:9 B 4B20 &=4B: 52 42 8:5' 32 ; <80 25
3B2325 30 ' & 42 42 ?92+?928 89G8 428 42 + ' B 5.20
952 B ; 42 42 4 A ; ++2 =: ; ; 28 '@:9 88 53 '+'
:8 42 .2332 .:58 44B 3 :5' ?92 4:55253 3:9328 +28
E2B398 42 8:5' 82A2 23 42 + ' J+: B2 4&43B2 95' .=2'42
< B3'B24:93 G+20 '?- - A ' " '< # ' #" N
- - "' ++' N 7' ' 4@2.3 E2 ; 253' &43 3 H! BJ92B 32

4& 5@:91' 952 2 ; ; 2 253B2<B25 5320 54GB 5+ G+20
=4B: 520 'C!(7# ' + 3 'L] J' ' 2 ; ; 2 ?9'
J9B2 .: ; ; 2 <B 5. < + <2B8:55 J20 4 58 95' <:2 ; 20
95 B: ; 50 952 < 422 42 3=4 3B2' >2 5& E 8 H@2342
' + ' 83 +2I' ?92 + ' .:B52332 ?9' 43 3 89B ; '34320
23 < 8 <+98 42 .=2 ; 828 ?9&952 =4B: 52 42 B: ; 5'
25+2E220 'C '3' 0 <' M' &=4B: 52 8& +
<2B^: 3 E2.' 89B<B 82 ?9&2+2 5& ; 2 <+980 :90 <:9B
; 29A 4 B20 ?9@2+2 5& ' @ ; 8 ; 40 '?" " '
' , & ! " ' 0' +233' A 0 < ' N 0 4 58<:9 ' ' '+28
=4B:+528 42 .= B48:5 52 8:53 < 8 428 43B28 ;
J 5 B280 " ' G 3' 9 0 +233' '<' 'LL B 2A325K
8 :50 2 ; 2 ?9' J9B2 4 58 95 4E252 ; 253' &283
2+2 ?9' 283 &=4B: 52 42 & E2539B2
' ' 3' & #! - ' 49' JB2.' '< ; 3E(0 42
=4B:8
+$ 'Q4*B:* *\&/0 " ;' L 6 $9' << B3 253
9A 5. 258 =4B:8 ; R3=:+:J ?928' J28 =4B: ?928'
2 5 3 8 ; 2 984' 428 8 4.+28 =4B: ?9280 '
A - ' 0 L' 2B ; 2 4& 53 ?9 32' # :5529B8 =2B:+
?9280 24B4 ; :5 28 952GB28 25' ; 4 ; : B2 428 =4B:8
' 6 '82 4 3 42 > ' <:48 2 <B ; 3 E2 ?9' .= 53 ' +28
=4B:8' &++ 42 2' & 4R8842 8:53 +28 <+98 G2 9A ; :K
59 ; 2538 42 + ' <:48 2 =4B: ?92' LL B 2A3258 :50 +
82 4 3 4&952 <:48 2 5:G+2 23 4+2E42' LL 2B ; 2 42 <2 5
39B2 25B2 =4B: ?920 5: ;' 4:554' < B' ?92+?928
.B 3 ?928 ' + ' <2 539B2 ?9' B2<B482532 +28 38
23 +28 <2B8:55 J28 428 32 ; <8 =4B: ?928' LL]' 2B8
=4B: ?920 E2B8 2 ; <+:R4' 4 58 + ' <:48 2 <B ; 3 E2
?9' .=3 ; 3 ' +28 =4B:8' =2M +28 5. 2580 .&283 +2 E2B8
=2A ; 43B2' LL =2M 5:980 4 58 +2 ; :R25' J20
+2 E2B8 =4B: ?92 43 3 +2 E2B8 42 4 A 8R+ G280 .:5
8 2B4' 9A .= 58:58 42 J2832' 9@:9B4&=9' 20283 +2
E2B8 +2A 54B 5' ?9&:5' 428 J58 < B' +2 5: ;' 42 E2B8
=4B: ?92' LL :4 ; 2 =4B: ?920 +2 <:2 ; 2 4< ?92
' : ; 24 2 =4B: ?920 .: ; 44 2 : + +28 <2B8:55 J28
8:53 4&95' B 5J 2+2E4' : ; 24 2 =4B: ?920 J25B2
; 3:R25' ?9' <293 E: B' 828 G2 93280 9 '1! N
-'1!' ' !-' :5.=20 0# ('L@ ' ' '&2E
@:94 283 ; 4+4' ' &=4B: ?92 4 58+2 93B 50
' " ' $9' << B3 253 9A =4B:80 9A =: ; ; 28 4&952
B52 JB 5420 9A . < 3 528 ++983B28' :583 5.2 =4K
B: ?920 0 0 - &" ' E0 ' >& 'E9' 3:98 +28
<+ 8 B8 42 8:5' ; 2 =4B: ?92 & E: B' B 25' ?92 4& 9
J9832 23 ?92 42 ; J9 ?920 '?' ' 0 N'
: + ' ++983B2 <+ .2 ' +2 GB E2 !:B:50 4&95'
=4B: ?92 94 .20 B:53 53 4&95' 8 5J+ 2B & ; <4
3929A 2 :B3' B 95' .:9< 42 828 42538 E 3 32B ; 52B
8:5' 8:B30 '0#7B ' ">* ' 0 0 :932 + '4 8. <+ 52
; + 3 B2 5&283*2+2 < 8 :5442 89B 0:G4 88 5.20 23
89B &:G4 88 5.2 + ' <+98 =4B: ?92 @98?9&' GB E2B +28
<4B +80 @98?9&'B4< 54B2 8:5' 8 5J^ "'0 " '
3' 50 <' "F%' $9&25' +9' @98?9& 9A 44 938 3:93 82
; :53B2 =4B: ?920 '?#' ' +3' ; ; G 25' #: ; 4B2
283 =4B: ?92 +9 * ; 4 ; 2 25' <2 J5 53 +2 . B .32B2 4&95'
=4B: 82 " '@7 'C' 52 =4B: ?92 B429B GB ++ 3
89B 8:5' E 8 J20 ' , &" ' 0 & ' :98 E:98 < ?9 2M
42 @2' 52 8 8?9:' 4&=4B:+?92 4 58 E:8< 88 :580
?5 - '1!-(' '<434 283 &2 :B3 +2 <+98 G4B:+
?92 49' .:29B 23 &98 J2 +2 <+98 5:G+2 23 +2 <+98
82584 42 + ' B 8:50 "' 0 - / # '@' + !7 ' 5 82
3 =:9529B ; 4 ; 2 42 +29B H 9A <B 5.28I' 44G 32B
+28 ; A ; 28 +28 <+98 84E4B28 23 +28 <+98 =4B: ?928
42 + ' 8 J28820 " ' ' ' : ; 2 4 B J929B =4B: K
?92' 'C' " ' 1" #' ' ' :98 E2M 4 3
82B 2982 ; 253 .2 ?92 !' 42 :9J 5E ++2 4 8 3 9
.: ; G 3 42 + ' B25 420 4 58 95' ; : ; 253 42 J 234
'4B:+?92P +28 G:9+232 B:9+ 253 89B 8:5' G:B4P +
.B ' '828 : . 2B8' 2 ?9& + R' '4& ; G+20 ; 28K
8 29B80 .&283 ?92 5:98 52 8: ; ; 23 <: 53 25' J92BB2P
23 25' 2 23 + ' ' 2BB2' 5&23 3<: 53 44.+ B420
1! (!-' 3' 0 <' YA ' $9&283*.2 ?9&95' .3 :5
=4B: ?92^ .&283 952 .3 :5' 93 +2 23 J454B2982 23 ?9'
.2<254 53 +2 42E: B' 5&2A J2 < 80 'R A '"7'
&" ' 3' 0 <' %70 4 58 'LL B:5 ?92 ; 253
23 < B' ; :?92B 2' >2 8 8 ?92 <:9B 95' 8:90 4&952
B429B' =4B: ?920 :98 E:98 2B 2M 2882B 4 58 + '
<+ .2 <9G+ ?920 " ' + "/ ' 5 0 'LL%6 + 82
4 3 428 <2B8:5528 ?9' ; :53B253 42 =4B:+8 ; 2' 2332
=4B: ?92 2 ; ; 20 % 'C ' "?/' 23 =4B: ?92
E 2 ++ B40 ' #' 7- '+!7 ' ' 8 8:53 4 58
5:8 :B4320 23 +29B :9+2 =4B: ?92 253 <2B B' 8:98
.28 ; 9B8 :9' E25J2B 0 ; 4B ?920 9 '?&' 0 "0
:9B E:98 42 ; 28 3B E 9' .: ; < J5:58=4B: ?928 0
9. 80 C (&' @0" '$9' 5:98 B254B 0 4 3 .23=: ; ; '
=4B: ?920 9A G:B48 49' = 50 '>2 ; ; <20 ' +29
B980 28 < R8 580 +8 42 + ' B4<9G+ ?920 9B +' B:5
3 4B2 '8 ' E: A' .. :9B98^ ' R 7B' #/ -
+ N6 2B ; 2 ; 442. 52' B48*<9 88 530 3B48*2 #
. .2' 5' ; 44 . ; 253 =4B: ?92' LL J' 58 +2 + 5
J J2 :B4 5 B20 95' B2 ; 242 =4B: ?920 55' < B3' =4K
B: ?920 952 JB 542 B28:+93 :5' ?9' 3B 5.=2 95'
8 39 3 :5' 3B48*4 . +2

*

$- $-

-' 0 E6 W' 58' 283* 'B .: ;<3' 23 28:B <3
49 B:@ B2 53 H B ;!' 28 E2B8 =2B:+?928 ?92 4 ' .2
+ 83 #: ; 2B98 +2 <: 2320 6 'C &' 'S' G283 + 34
25 <253 G 25 4 B20 ?92 8 '.: 53B B2 283 952 E2B39
?9 '283 < B898 5:980 <<2+22 =2B:R?92 23 4 E 520 5'
WG' 373' S 6 8' ; '5' 9 + ; :5' 42 + ' 32BB20 @2
52 + 882 < 8 42 B2 ; B?92B @98?928 4 58 +28 5928 + '
= 9 29B 5 ; 3 G+2 4 9+.9528 ; 28 =2B: ? 280
! ' 0 F ' 2B8 42 4 B 8R++ G28 ?92 5:98 <<2 '
+:58 =2B:+?9280 < ' ' <' 6: U0
-' !' 3' & #! (7 ' 42 '<V:3A W0 42
=4B:8
+$! 'Q2*B:+*+.2* ; 9/0 "5' 952 ; *
5 2B2 =2B:+?92' 2 ::549 B2 ='B: ?92 ; 253
-' (!' +, '23 +2 89 A2
+ ! 'QG*B:* *8 ; /0' ' ' 2 ?9' 283
<B:<B2 9 'G B:8' =B:+8 ; 2 283 +2 . B .3 B2 428
=: ; 28 4 E 580 'C" ' ' *' "
(" ' " 5 5' 3:' @2 5 '<9 E: B E2.'
3B 5?9 ++ 3' 53 4= B:+8 ; 2 @: 53 = 3 53 4=9 ; *
5 3 0 0 #" '50 8' 2R 8 3 3 ; 8 =:B8
42 8 ' <:B3 2 H42 25E 2I <:9B +9 0 4 58 3:93 .23
G B: 8 ; 20 + 3 3 8 ' <29 8:B32 42 8:5 5 39B2+0 ?920
8 58 .+ 3 42 8 ' J+: B2 4 58 +28 R29M0 4 58 +28
J28328 23 4 58 +28 ..+ ; 3 :58 42 3:580 + 52 82
82B 3 <: 53 <2B?9 ?9 + E 3 3 952 .3 :5 89K
G+ ; 20 ' ' . "'B' 7' L 6 B 5429B
4 4 ; 2 <29' .: ; ; 952' :9882B + 'E2B39 @98?9 ' =4 *
B:+8 ; 2
' ' (!' ?
6 -!' Q= *B:5/0 ' ' L ' B 54 : 82 9 42
:B4B2 428 .= 88 2B80 ?9' '+2 G22 :B3 +:5J 23 +28
@ ; G28 3B 8*= 93280 = B:5' .254B' <9 JB 54 = B:50
#" ' ;!#' +' 5 @:9B0 89B 828 +:5J8 + <2480
++ 3 @2 528 8 :9 2 = B:5' 9 +:5J G22 2 ; ; 5.= *
495 +:5J .:90 ' '- 'E+ 0 "' 2 = B:5'
5:98 <B 82532 ; J2 42 .2332 E 2 42 8:9 B 5.20
4 5A 3 0 4 54 J25.20 5 R 53 ?92 2 ; G98. 42
<:9B 3:93 ; :R25 4 54983B 2 + < 882 428 =29B280
428 @:9B8 253 2B8 _+' ; 2 <+ .20 ; ; :G +2 9
<: 53 42 + 882B 4:932B 8 ' 2283 95 3B2 5 ; 0
'C '3'S 0 <'N' ' 58 +2 J25B2 =2B:50 :5
4 83 5J92 25.:B2 + 'JB 542 JB23320 + ' <23 32 K
JB23320 +2 .B G 5 42 ! =:5 :9 = B:5' . :30 #" '
(! ' ++ 80 +2 G93:B0 +2 G =:B2 9 ' L # B:5
G+ 5.0 JB 54 =2B:5 ?92 :5 3B:9E2 89B +28 . 328
42 B23 J52 ' # B:5' .= 3 50 <23 3 = B:5 ?9' 5 '
<B28?92 < 8 42 ?9292 ' L ! 882 42 =2B:50 ; 8 :9
G:9?923 428 <+9 ; 28 42 + '?9292 49 = B:5 ' L '#2K
B:50 <+9 ; 2 5: B2 42 ='B:50 4:53 +28 <+9 ; 88 2B8
:53 98 J2' L '# B:5 42 ; 2B0 8:B32 42 <: 88:5
4 58 ?92+?928 254B: 38 :5 5: ; ; 2 58' & - !(&7 '
* , '4 58 4 93B280 28< 4:5
-'# 'o 8' +98 428 B25 ' + 'J92BB2 ?928<B *
E 2B +2 = B:50 2, * ' " C' L AE6 8 ' 3 + 'E2: 253
+2 9.:5 ?9' := 88: 3 =2B:58 23 G 33: 3 23 82 .: ; *
G 33: 3 '29A 23 29A 6 +9 0 ' ' 0 N" L'AE 68 '
$9 54 +2 =2B:5 E:+2 :B3 G 930 + 425:32 G2 9
32 ; <80 0 & ,7'
-' (!' 2BBR0 , ' " 5 25' ' : *
<B:5 <B:E25<' 28< J5' ' 3 + 0: J= *
'42 520 = 93 ++2 ; ' '89 4: 80 ,
'Q= *B:*5 /0 ' ' 23 3 = B:5' 5
3 B 3 ?92+?92 <B:49 342 :28 = B:55 2B28 < B + 'E2532
428 <23+38 =2B:552 9A ?92 :5 8 E 3 25JB 882B0
'C '3'o '<'NF
-' (!' ; 593+3 42 = B:5' ' W
3' # 'Q= *B:*5 /0 '5' 2E ; 2 42 9.:5*
52B 2' = 882B +2 =2B:50 E2.'+2 9.:5
-'# 'S 68' $9' E29+3 B2 8:5 9+2:5 = *
B:552B' A , ' ' AAAE 0 / '
'' (!'
? -!!* ,' 2 ' Q= *B:*5 0 5 *B/0' 6'
' 2B ; 2 42 9.:552B 2' 9.:5' =2B:55 2B0 .2+9 '
?9 '283 4B2882 ' + *.= 882 49 = B:5 ' L 6 82 9 = *
B:55 2B0 .2+9 '?9 '283 82.0 E 32 23 988' <29.= BJ'
42 JB B 82 ?995 =2B:5' L J' 23 \ ; + B2 ; 253'
9 882 = B:55 B20 .9 8888 .= 2 23 ; JB2' L 2 ; ; 2
=2B:55 B20 2 ; ; 2 ; JB2 23 8 .=20 ?9' '+28 = 5*
.=28 :B3 = 9328' 2332 +:.93 :5' 'E 2 ++ '
-'# 'o 8' 28 @ ; G28 JB28+28 23 ; 5.280 +28
.9 8828 =2B:55 2B280 '= * F'
-'M&$ 'K #!-
K6 ,-!!* ' Q= *B:*5 *B/0 ' ' 29 :3 +28
5 B:58 82 B23 B253' L 543: 3: ':5 + E2 +28 = B:58'
2 B: 0 <B28 8:5 4 @2952B0 + 'E:+2B 2.' ! K
4 ; 2 ' + B28:+930 49B 53 + ' .= 8820 42 . 882B + '
; + = B2 23 + ' = B:55 B2 ?9' 3 3 ' :8R6< B.2
?9 '42<9 8 8A 58 + 5 E 3 E: 4 5' ; + 5' 5' = K
B:50 23 + +9B 233 .: 3 +3 3: : : .' B 5.8 <:9B 253B2 *
325 B .28 B28 *+ 0 5 3/0 +0 6F0 "' EB + "FF%'
2+:5 < B+2 E2.' 952 8:B32 4253= :98 8 ; 2 428 =2 *
B:55 B28 ?92 B 5?: 8]' E 3 3 +2E2B ' :5*

3 52G+8 90 23 49 JB 54 2 23 42 B3 ?9' E 38:9 *
; 8 = 2 ; <B2 42 =: ; ; 2 428 : 82 9A 988 '8 9 *
E J280 ' '3'A E0 <'NF
-'# 'O f8' 2 59+M 520 E 3 <+98 G2++2 =2B:5 *
5 2B2 $9 ' 3 9G 5 52 4 : 82 9A 42 B E 2B20 '
#'0! ' ' 6 " "' L AE+6 8 ' 28 =: ; ; 28
42 .2 32 ; <8 .R R 53 5E253 ' + ' ; 5 2B2 42 B2
.2B3 528 +:J28 = 9+328 28+2E 28 25 2B0 2B ; 28
+2 +:5J 42 ?92+?92 B9 882 90 829+2 ; 253 .:9E2B328
' + B2 E:R20 +28 :53 5: ; ; 28 25 B 5<:R8 =2B:5K
5 2B280 23 '9B +28?92++28 +28 =2B:58 :53 8 ' G 25 < *
<B 58 6 4B2882B +29B B20 ?92 +28 <23 32 ?9 '8:53 42 *
5 .=2M 42 '428898 E + 253 95 JB 54 425 2B0 <'
' ' ' - 7#' " '! 7B' + E' E0 <' B) 2
JB 541 B:R 58:R8 H 60' 3 B2 429A G 83E925380
?9 '49B253 25.:B ' :53 52G+2 90 ?9:5 5: ; ; 2
+28 =2B:55 2B280 5'
'$- ?'
3' # 'Q=4*B:*:*J :*5 2/0 ' ' 3B2 495
<:+ ; 2 <2B49 4 #28 :420 ?9' .:5325 3 + ' + 3 :5 23
= 83: B2 428 42 ; *4 29A
-' (!' D#<: :R:E3 0 42 '<2UV0 =4B:80 23 R: *
E3 0 5 88 5.2
'# 'Q=4*B:*: / ' ' 2B ; 2 4 53 ?9 34'
! :59 ; 253 4+2E4 25 ; 4 ; : B2 495 =2B:8 :9 4952
=4B: 52
-' (!' T#< :E0 42 =4B:8
'Q=4*BN 8 82 + 2 ' 95 =4*B *M ++983B2/0
' ' ' 6 2B ; 2 Q 53 ?9 34' :B5 4:55 '4 58
#: ; 2B2 9A =: ; ; 28 495 :9B J2 23 495 ; 2B 32
89<4B 29B0 E:B 8 < B3 .9+ 2B8 428 4 2930 23 4 58
#28 :42 .29A ?9:5 4 8 3 +8 495 4 29 23 4952
; :B32++2<9 4952 442882 23 495 ; :B32+' 2 =4B:8
H .= ++2I 9 328B G+2 9 B2832 428 =9 ; 58 ' +28
E9 <+29B2B 23 .= 5J2B 42 E 8 J20 ' & / 'BE0
' 2 <29<+2 +9 '4422B5 ' H ' 4+:5I +28 =:5529B8
?9:5 B254 3 +:B8 9A 42 ; *4 29A0 <<2+48 93B2 *
; 253 +28 =4B:80 'K '!- ' <Q' 3' 50
<' '4 58 8 ' = 83: B2 5:98 4 3 ?92 +28
<B2 ; 2B8 =4B:8 5:53 434 ?92 428 4283B9.329B8 "42
G43280 >M '?- ' ' L 6 J' 29A ?9 '82 4 83 5 *
J9253< B 952 E +29B 2A3B :B4 5 B2 :9 428 9:.48
4.+ 3 538 ' + 'J92BB2' 283 95 89@23 42 .:58:+ K
3 :5 <:9B 5:3B2 < 9EB2 =9 ; 5 340 42 E: B ?9 + R '
29 42 =: ; ; 2 4 58 +2 ' = 4B:80 ' ' ' '
(!7#'N6 " (' 5 =4B:8 BB434 5 '?92 429A GB 8
'+9 0 ' '@7# - 'E0 "' '3254B '82 5 283 <: 53
+ 'E2B39 428 =4B:80 5' 'E0 ' :5 42 5:98 +28
=2B:8 8 58 =9 ; 5 34' +8 <:9BB:53 G 25 :B.2B +28
B28<2.38 23 B\E B 4 ; B 3 :50 .: ; ; 2 :53 3:58 +28
:G@238 2A3B :B4 5 B28 ; 8 +8 5 9B:53 < 8 +28
::29B80 ' ! 7 ' "'D!7# !-' :'?9' 2 3 +2 =4K
B:80 .2 ?9' <:B32 + 'J+: B2 49 ; :542 @98?9 9
.: 5G+20 E +29B0 ; J5 5 ; 340 G:534 5 39B2++20
E: '<:9B +2 ..29B E E . 340 <4523B #:50 JB 5429B
23 89G+ ; 34 42 J45 20 E:++ '<:9B 28<B 3 0 5'
+ 5:98 '4 3 ? 95 = '8' 43 3 95 E:+29B ?9' 3
+ '3432 4952 B ; 42 .2 ??95 E:+29B 3 3:93 829+0
# ! 0 233' ?' ! ?' H! -' ' 2 B 2B "NCN'
2 =4B:8 H! 3=B 4 321 4 58 ; 28 GB 8 2833: ; G4 3:93
8 5J+ 530 ' &# ' 0 "' + 82 ; G+2 ?92 +2 =4B:8
283 495 829+ ; 23 2B0 ? ; 283 .2+9 '42 + 'J92BB20 23
?92 +2 JB 54 =: ; ; 2 283 42 3:J8 +28 ; 43 2B80 :9 42
+ 'B:G20 :9 42 4<420 :9 49 . G 5230 :5 42 + '.:9B0
' '" #' 5' 3B 32 42 =4B:8 95 =: ; ; 2 ?9' 3
+ :5?94+20 .283* *4 B2 ?9' 89G@9J92 5@9832 ; 253
J8 < R8 495 3 3 E: 8 50 3' AA50 <' BM' + R' '
952 5 5 32 42 J258 42 J92BB2 ?9 '8:53 428 =4B:8 4 58
.3 :50 23 =:B8 '4200+_' 52 :53 J94B2 42 B2 +2A :58
89B +29B ; 43 2B06' P 'D !- ' + 283 882M :B4 K
5 B2 '28' =4B:8 ?9 ' GB ++253 4 58 +286 .: ; G 38 23
4 58 +26 .3 :58 J92BB 4B280 * 2 < B 3B2 3B48* 2 G+2 0
23 3B4 * ; 44 : B2804 58 4+ 93B28 32 ; <80 23 B <K
<:B3 '4 93B28 :G@2380 'K ' -('8<75' ' 0
< ' 7C0 4 58 <:9: 8' ! :53B2M*5:980 =4B:8 ; J5 *
5 ; 280 :3B2 E2B39 4 58 3:93 8J5 @:9B '0 :R. 8
: ; ; 253 E:8 .:29B8 89G+ ; 28 9'8:B3 8:93 25.=:53
+2 B23:9B0 >' ' ' " '? A6# ?Q- ' ! 8 9
; :54B2 B2 2B8 9528320 2 ; 8?92 3? <=20 =: ; ; 2
B28320 3 +2 =4B:8 8 4E 5:9 30 5U' VN' = B+28 S 0
?9' 93 95 =4B:80 5+293 < 8 + '<B9425.2 ?9 '25 243
3 5 JB 54 =: ; ; 20 ' # / ' 7# A& '
B3' N' 5 <<2+ 3 .280 88 88 58 4?L' =4B:8 >2 /B
GB J 54 J2 43 3 42 + ' J+: B20 5'0# - ' "'D '
5 B: '8:+4 3 283 <<2+4 95 =4B:8 ' 95 ; :5 B?92
4J 8+ 32 B0 :54 329B 23 J92BB 2B*:83 +2 E4B 3 G+2
JB 54 =: ; ; 2 23 +2 JB 54 =: ; ; 2 283 9*428898
49 =4B:8 @2 .B: 8 4:52 ?92 E:98 8282M .:53253
?9 54 @2 2B ' .2+ 2 4 83 5.3 :50 5' + '@(&!75)'
! ; -'@9+++' "CNF' 3 ?9@283*.2 ?995 =4B:8^-T ! :5
25 530 2@283 +2 GB E20 ' (#' E0 "' 28 E: 2
.28=43:8 '+:5J32 ; :8 5E 5. G+28 H+28 8:+4 38 42 0e *
32B+2:I> +8 ; 25 .253 25.:B +2 'E 9?0 +29B8 43:5548

N2 J.' $2' . ? '2 'Q # 1 ' $42 $
C '. 'E ',$'.J$ ' '2 ',1 ' $21 . -
$ #' ' \ ' 2UX QS .1 ' 1$'
E ' ' 2$ M ' ' ' '2$ ' <$ '
O$M $ J ' '2' . $2 .'O 1 2 '1$' : I)
21 '. '1 'M J ' 1$'E ' '$. <)
2 ' 'K .1 M$' 1,1 ..M ' '2'41 .
. ',2 I ' '$2 I $'2' M . M ' .'< .'
E1MM 'KM',1 '. ' ' J1 ' 14 '
J ' .' I$<1 ' ' '2 ? 2 '$2 ('< . '
.'E 1 5 ' ' ' . " 7 'UP ' .'
G1 . #$ 1 .' #2 ?1 ,,.M$. ' 1 '2 ' $.J2'
$M 'K 2 ' 1 $' ' $ J $ 2 '? '2 '
. $. 'O1 ' 1$ 1 '.< '1 'M1 $'c '. '
I$ # E. 1 '. ' ' J 'P' M$ '2$ ', 'O . J
'2' M$' . ' ' I1$ 'A '2
! ' ' . J$I M 'N $ ' I J 2 ' .:.J2 'U? '
Q $ .421 $ $'2 'Q #0 ' 2 ' < .
2 'E. 1 M $' 1 '2 '. <Q # ' '2$2 .
' " 1 'E1MM '? $ ' .$ $ < ' '2',1 J' .'
J 1 2 '< . '.:KM 'E ' I '
_: '. ',$2' .: 'Q '? ' : $,$'J'E. 1 '
' * ' / ' I [2 'Q # JE . $ 2 <)
. ['J 'E. 1 '.1 ' 1 ' 1 I1 '.$ ' J1MM ' $ '
C 2$ '.$ $ '. '< . ' E.1.1 ? ' 1 'I1Q1 '
'P1 $ 1 ' ' 1$ M $' ' I$ ' . 'B.)
_E $ ' ' $ J'?$:.2 I'). '. 'E1M^
M ' 2 ' J1 ' ' ' ,1$? ' ' ' J1 1 '
'A 9 A 'P: M1 ' '4$ ' M '2 'JJ '
. 'E. 1 '. 'M1 .'UP1 $' D$ $2 'Q 1 2 I '
. ' M . ' 'Q #J$ '. 'M1 I M '? $,)
' M42 '2 ' 1 2$ $? '? $ .1 ' . '
. J ' # $. 'MM' $2 Q ' . 'KM ',.:'
1. ' $ 'K '21$ - 'A 9 '
'E. 1 ' ' I < '2' ' ' " '$'P '
< .1 ' ' 'E. 1 'o ' ' ! " ,7 'P '
' ' '2 ' . 2$.'. '1 '2 '< . ' I ' .1 '
2 'E. 1 'M1 . $' :' 1 I '? '2 '. $1 '
-$M < 'o 4 '#'= , 'UG $ I #
6 'E. 1 I '-'?: '4 4 'A '
' '!'P 'I 2< $ ' ' J1 ' :$2 M 2$ '1 '
. I1$ 5 ', ' 2' 'E. 1 '9 *' I 'U0 '
O M 21$'? 2? ,1$' 'J' ' 2 $ $$ ' ;'
'$'M.. J$ ' 'E. 1 '2 !" M'. '
C 1 <' $ J$ 2 .- '1.M I: '1M ' -.: '
$. '.'4 .. ' JE$22 ' '2 'E. 1 '. 'O2$. '
'.J $I 2 '? $; $M 'O1 M '1 ' 'E. 1 '
M42 42 'K 1$)M .M ' '& '"'2 ' P ' ^
1 < '? :1 '21 ' ' '12 $.'P ' 12)
$.'. ' .21< 'D ' ? ' ; ' 1 ' '2 '
, ' '.'E. 1 '? :1 '21 ' ' M42 '? 'O1$)
' :' M $' 2 'E 1$' .: '? '21 ? :$2 :'
? :K 21 '2 'I $.' '2' $J '3
' ; . ' . ' 1M E. 1 'L ',$< ' . '2 ' 1^
M ' $2 ' J . QU2' _2.2$ 2 '_Q $) '.1 '
A1$2 ': 'M1? .' 2 'Q ' .$'U. '2 '2 J '.
OE$ 1$ $ $ $42 M '2 '<1 ' ' 1M ' ' '.
2 '. ' 'E. 1 ' '!,* ' C ' 1 'J 'E 1 '
1)$2 'J1 G '. 'OE$ 1$ 'R ''X1 '$2 Q '4 ')
J1 '.'JE$M. $? ' M$ #' ' 'E. 1 'JE$M)
$? 2 1)J'. 'E. 1 R' 1MM '' 'J '1 '
. 'E. 1 "J '1 ' # ? $1 ' 1 1 ' 2 'E 2
41 '. '2 '2$I ' '? $4 ' '$, $2 $42 M '
2 ' ' ' ' ' 'C ' # $1 '
; . 1 '. '1M 1 <'K? $$2 ' $I.' . '
I ' # 1 .$ $ 'P J1M '.'N $JE ' 'K
2 '.1 1 ' 2 .' 1 '$' '. ' M 1$. 'Y '
E. 1 '. '1M ? $, M42 ' 1$ ' ' ,
E1MM I' W'P 'E. 1 '.: ' I J 2 $K
? $ 2$ ' $I. ' Y$ 'E. 1 '.: ' 'JE1 J 2 $
? $Q 4 $2 '.: 'M $. ' #J 2 ' '4$ '1 '
M 2 ' .JE '? :1 ', < $. 2 'J1MM '. 'E.^
1 '. ? 'O$M $. . ' '1 . > - / 'C 1 J '
. 'M1 ' < E. 1 '. ': M$ $. 'C ' I T
X1 ' I1 'I '. $' JJ $I M 1 'J # ? $
1 ' ' 'KJ ' # ..$$1 'UM ' .: . '. <.'
.'M. $.$ ' '2 ' 1 $ ' ' 2 '$2 L' . 1$
' 1 '1 '2 ' $M '? : ' [.2 ' $
<. . # $ 142 '1 ' I $2 $ $.' 1 'J '
E. 1 '. 'O E1M2 4 a@ 'A ' ' E)
J$M '.'J '. $ '1 ' I $2 ' 'E1MM ')
M ? E2 ' 'J 2 $.' ! <. J 2 $
. '!T 1 $ 'M $'.. 21 '1 ' 1 , M 'X Q
2 'E 1 '. '2 ' $ & "' ' '. "'7 '
'P 'E. 1 '. '1 OE1MM '+M ' 'J ' $'M1) I
M ' $' ' 1$ 1 ' . $1 '. 42$J
'P 'E. 1 '. '2 ',. J 2 $ 1 '? $ 2 ' .1 '
' .$'? : ' '? 1 M12 '2 'E. 1 '.)2 ', '
B 'O," ' 'O O M$$. M ': ' 'E.^
1 ' :14 ' ' ' .M$ $1 # J '
? : 2 ' .1 ,$') 'E. 1 '.: $ ' - '
/'s' ' = 'JE I 2$ '. $' 1 'E. 1 9'
2 ' ' ' 'C $21 '.$ M 'O C 1I 4 ' ' -Q

' <: 53' 42' =N :8' <:9B' 8:5' E +23' 4:' .= ; GB2? .2 A'
?9 ' E E253' 3B 8*<B'8' 4&95' =: ; ; 2' ::55 88253' +28'
G+28828? +28' 44 938? +28' E .28' ?9 ' '.G <<253' "'+ '
E92' 49' <9G+ .
-' ! ' & ' 283' 8< B42' 4 58' G4B:8?' ; 8' 2+2' 52'
&283' 4 58' 9.95' 428' 44B Ec8
-'# ' S]8' #2B:8? 32+M' 8253' .: ; ; 2' 2A' :9'
5J28? ' ,C ' " ' ' IL AE]' 8' 2+2'
3B:9<2' 4&=2B:8? &28+ 32' 42' + ' B2.2? ..: ; < J5: 253'
> 8:5' 4&95' .:29B' <+2 5' 4& ++2JB2882? ' E%
-' (! ' $1+' & #! ' %& -+,A' @&2, ' 54' & 21+'
+19=&14' 13 92' 5 # ' =&2% ' 1+' 5 #3' 283' %4'
-&+ +' , 7 @2&' %&' 7 ,+ ' ,4' ?& -2 +' 24%&' 2&-2b&3+&'
++3' !' &+' 3,3' 43&
3' # ' QN*B:*83B *3&/?' 8' ; ' <=48 25'
?9 ? <:9B' < BE25 B' '+ ' <:832B 3R? 5.254 ' +2' 32 ; K
<+2' 42' 52' ' <= 82' Q?#<:: < E:P/'H' J' 5' #N'
B:83B 32? 9 '42E 83 329B? 95' 5.254 B2
3! ' Q=2*B:9* /? 8' ; ' B 32' 42' <: ; ; 2
3' # 'Q= B*< * &? ++ ; :9 ++ 28/? 8' ' :R
(" $$
3' 3 + ' Q B*< *+ *\3 *B *4&/? ' '
< ' 2B ; 2' 42' M::+:J 2' ; ++2' 4&: 82 9 '?9' .: ; '
<B254'+28' < J2:58
-' (! ' D < 32 E? 3 ; <2B? 23 S2?AEX<? .:?'
3 # 'Q=2B*<&+?' ' ' 2B ; 2' 42' .= 882' =25
42' G:552' =2B<2? .= 25' ?9 ' '42' G:5528' JB+ 28
-' (! ' :R' # ? 8 8B
' Q= B*<+ 8' ' 2B ; 2'42' ; B 52'
42' G: 8' B2.:9BG22' ?9 ' 82B3 ' #2B' &2<2B:5 9' 5 E B2'
' ; 2 ; 253' 42' 8.9+<39B2' ?92' :5' ; 23' 89B' + ' =2B<2'
' <+ 3*G:B4
-' (! ' 8*GB23:5? & # ' 23' +2' E2BG2' & # '
<<9R2B? 4& <B 8' > +
3' # ' Q=2B*<&/?' ' ' 2B ; 2' B9B +' :B32' 42'
.B G+2' '3B ; 2' 23' 25' <+ 5' 5.+ 5
3' # ? 'Q= B*< ? <22/? "; ' 2B ; 2' 42' .= 882'
= 25' G 25' =2B<2? . 25' ?9 ' ' 428' 5J+28' 8:+ 428
-' (! ' #2B<2' 3
' Q= B*<&/? ')')' 2B ; 2' E 2 ++ ' #2B<28'
; B 528? .2B3 528' ; 3 B28' ?92' + ' ; 2B' @2332' 895' 828'
=2B48? 32+28' ?92' & ; GB2' JB 8' 23' +2' .:B ++
-' (! ' K # #' :9' & # #' 8 8 B' QE:R 6 G
3' # 3 ' Q B6< 8&/? ' ' 2B ; 2' 42' ; 42. 52'
B9<3 :5' E 8 .9+2982' . 3 .3 B 8 2' < B' 42' + J B28' +2'
E9B28' 3B 58< B25328
S? (+' ! J ' ' &3+' 4@E&+ '14G' =&2-& ' &2F '
-& & &+' 14+2& ' -4 +4 & '9=, &2 54& *+ ' - #!" '
' " '] <@: ^? 4 B3B2? 9+.2B2' B: 5 ' 53 '] <'
W ' 82' B 33 .=2' ' < 332? + 3' # # ' 8&23254B2' 25'
B ; < 53? +28' ; + 4 28' =2B< 3 ?928' J J5 53' 42'
<B: .=2 25' <B: .=2
'# ' Q B*< *8 /? ' ' 2B ; 6' 42' M::+:K
J 2' .=529 ; :5' 9' ; 5J:9832
3' # D [$ 'Q B*< *3 *\&/?' "; ' 2B ; 2' 42' ; 2'
4245?' $9 ' 283' 42' 5 39B2' 4 B3B2982' B9<3 :5' =2B'
< ?92' 3 82' =2B< 3 ?92
-' (! ' K #
3# 58 ! 'Q B*< *3 *8 ; D/? ' ' 2B ; 2' 42'
; 42. 52' 3= 82? +2' <+98' 8:9E25342' 5 39B2' J:93 '
32982? ?9 ' <B:49 3' 428' B9<3 :58' 42' . B .3 B28' 4 E2B8
-' (! ' & #
3' # J #3 ' Q B*< *3:*J * 2/? ' '
2B ; 2' 4 4 .3 ?92' 28.B <3 :5' 428' B2<3 +28' H' 5'
. 3' 9 8' 2B< 3:JB <= 2? '3:B3
-' (! D < 323 E? B2<3 +2@*236E< W3E? 4 GB B2
' Q B*<2*3:*+:*@ 2/? f' '
42' &= 83:+B2' 5 39B2 2' ?9 '3B 32' 428' B2<3 +28' IL &S. '
4 ; 2' .B 3? ; 8' ; : 58' .:BB2.32 ; 253? 2B< 3:+:J 2
-' (! ' D < 323 E? B 3 +2? 23' S:R:^? 3B 3
A E , . 7 'Q B*< *3G*+:*@ 2/? W' , # d'
42' ; 42. 52' B 3 '89 3>26' 4 B3B28
-' (! ' K # '23' S E:^? 3B 3 ' &
3' # $# 'Q=2B*\&/?' @' 32 9' 42' 2B' <:9B' B '
; 882B' + ' .= BG:5' 42' =: 8' :9' +2' .= BG:5' 42' 32BB2
-' (! ' 2 ; 'K #6 'B 32 9
' bQ= B*8 *@&/? ' ' .3 :5' 42' =2B82B'
' B33E +' 3' E2.' + ' G2B82
' K # #
'# # DQ= B*.= +/? 8 ' ' 2B ; 2' 4& 83B:'
5: ; 2' : ;' ?92' &:5' 4:55 ' 4& G:B43 ' + ' <+ 5 32'
B 598' 42.:9E2B32' < B' #2B8.=2+' 25' 3CF+
' Q= B*8&/?' ']' 583B9 ; 253? 4& JB .9+'
3E 2? .: ; <:8 ' 42' < .28' 42' G: 8' ?9 ' 82' .B: 8253' 23'
?9 ' < B*4288:98' 8:53' B ; 28' 42' <: 5328' <B:<B28' '
4 E 8:B' + ' 89<2B+ . 2' 49' 8:+? ' & J + 82B? 23' <B 5. < '
+2 ; 253' 'B2.:9 B B'+28' 825325.28' ; ; 4 32 ; 253' <B 8'
&2582 ; 25.2 ; 253' 882B' + ' G2B82' 895' 95' .= ; <'
' 6' 2B ; 2' 42< .=2' 583B9 ; 253' 82 ; G+ G+2' ' + '
G2B82' :B4 5 B2? 9?92' :5' 33 .=2' 428' G229 8' :9' 95'
.=2E +' ?9 ' +2' 3B +5253' 89B' 42' 8 G+2' ' + ' G 882' ; 2B'
< : X' 25' B2' 8:B+ B' +2' <: 88:5 ' ILF]' 2B ; 8' 42' :B3 '
! 3 :5 ' 3B2*<:B32' B ; 2' 42' <: 532 8' 42' 2B' < B' +2

G 8? ?9 ? 3 53' 898<25492' ' 952' .:B42? <253' 3B2 + '
.= 2' ' <B:<:8' <:9B' 2B ; 2B' +2' < 88 J2' IL 2B ; 2' ; '
+ 3 B2' #2B82' 4& 33B <2? G2B82' <:822' +28' 42538' 25' & B'
9' ; + 29' 4?95' .=2 ; 5' <:9B' 25' 532B4 B2' +2' < 88 J2
"? BB B2' 42E 53' +28' JB 5428' ; 8:58' IL%? 8'
< .2' 42' . 542+ GB2' 82BE 53' ' ; 233B2' <+98 29B8' . 2B'
J28' 9A' JB 5428' .2B ; :5 28' 42' J+ 82' ILS' & < B ?
3 G+2332' . .= 2' 9' 8<2.3 329B? 89B + ?92+ +2' :5' ; 23'
3 3' 428' + ; < :58' <:9B' .+ B2B' E E2 ; 253' 95' <: 53'
42' + ' 4 .:B 3 :5 ' ILN6 2B ; 2' 42' < B.=2 ; 5 2B' <'
< B2 +' <:9B' 3254B2' +28' <2 9 ' E 53' 42' +28' B2' 8 '
.=2B' 'C' 2B ; 2' 42' ; B 52' :B42' ?9 ' 82B3 ' 33 '
.=2B' +28' <:9+ 28' LLF' 2B ; 2' 42' .= B<2532' & <9B2'
4&95' .: ; G+2' IL #2B828' 42' + ' .B:9<2? < .28' 42' G: 8'
?9 ' 82' .B: 8253' 4 58' + ' .= B<2532' 4&95' < E + :5'
. BB ' L?0 2B ; 2' 42' G:3 5 ?92' 2' J25B2' =2B82? E:R'
' ? 8<2.2' 42' <: 88:5' 49' +
-' ' o r ' 5' .2+2' <+ .2? ' =928' HG:29 8' "' '
=2B.2' 82E2B2B253' H8 < B B253' GB ; 25342' + < ++289'
+95.' &98 J2' 42+' < 8? : 8? <' B ' ILA E6' 8' 2BE .28'
42' =2B:28' 23' 42' .= BB928? ' & #(' ILAE6' 8' 3'
+2' B 5J2B253' 25' +29B8' G 3 ++28? .2++2' 49' <B 5.2' 3:93'
42E 53? +29B8' B.=2B8' ; 8' 25' ; 5 2B2' 4&952' =2B82' 23'
+28' J258' 4& B ; 28' 9' :54' 42' + ' G 3 ++2?
' FC' 52' JB 542' .B: A' 4&:B? :9EB22' ' :29EB2' 42'
; 8? 25' + ?92+ +2' ' 49' 98' 42' + ' EB R2' .B: A? 23' 25'
+ 'G2B82' '49' .+:9' 4:53 93' .+:9 ' :83B2' 2 J529B'
25' + ' .B: A? ' ' ! * 7B ' <' ": 'LLAE 6 8'
.25' 952' G2B82' G 25' 4253 2' 5&R' 9+3' H ; 5?92' L59++2'
4253? 9A ' 0#!5 '3' ? ' < 'CC
-' ' De ++:5? <2? # 3' 5 ; 9B' & 3' # '
5 93? & # 3' 9<= 5 ? & # 3' G 8*+ 3' &' (3' '
(3' 49' + 3' & # B' & # (' ?9 ' 3 3' 952' =2B82'
< B3 .9+ 2B2' <:9B' +28' ; 9E 828' =2BG28
? , ' ' Q= B*8 ? 8 2/? # ' ' 42' =2B82B'
= ; < =2B8 ' IL :B32' =2B8 2? <:B32' E2.' 952' =2B82
' 2B ; 2' 42' G+ 8:5' G 32 9' =2B8 ? .= 32 9' ?9&:5'
B2<B282532' E2.' 952' =2B82' IL@ ' ; ' 4&95' ; :B'
; RB2? <: 88:5
3' # ' Q= B*82* ; 5/? ' ; ' .3 :5' 42'
=2.82B
-' ' #2B82 ; 253?
+3 ' Q+ 2B*8 /6 ' ' 882B' + ' =2B82' 4 58' 55'
.= ; <' ' 2' =2B82B? 5 ' # ' B2' =2B82' S? .2332'
<:?92? + ' 32BB2' 82' =2B82' 4 =2 +2 ; 253' b
-' ' J F' 2' +: 5J' + ' 5.253? 8' :53' <: 53'
23' =2B8 P 5' ?9 5M2+298' H+ 29AI' 2 83' +2' .:B8' 5 EB '
2' 983' & 9G2B.' ?9& +' E: 3' 254:882' D ' ">?)'
(& - ' N 7 'ILA 96' 8' 3' \ .:5?928' 3' ; B\ 23'
H ; B.= I' 42' 3 2B2' = 52B' H+ G:9B2BI? + ' = 5 2B8' 4: 3'
<:B32B' +2' H+ I' 82 ; 25.2' ' . 58? 23' 8' 2 .2B' 42' +: +'
?B82' 42' E 3' 4258' 23' '4298' \2E 98? ' D)'
1 ' ' " C' o r 8' #9 3' .:BE 28' 42' =2B42B' ' 95'
.=2E +? ' ' & #(' ' 3:83' ?92' +28' 2E28' <: '
J5253' 25' +28' 4: 3' = B82B' 23' B: ; <B2' +2' <B2 ; 2B'
J2B ; 2? A - / #'5?
' #2B82
' Q=2B*829B/? ' ' 2+9 ' ?9 ' =2B82
'4" ; ' ' 2B ; 2' 42' M::+:J 2' B J5 2' =2B829B2? B '
' 2' ?9 ' ' +2' G:93' 428' 3 B828' J B5 ' 4&952' 28<2.2' 42'
GB:882
-' ' #2B829B?
' 'K # #
j' ' QG B*8 * :5? A' ; :9 ++228/?' '
2B ; 2' 4& B3' ; + 3 B2' G+2' 42' .= B<2532' J B5 242'
.+:98? + ' <: 532' 25' G 93' 2++2' 82' <+ .2' 89B' 952GB .=2'
B3 2' 9' 89B' +2' .=2 ; 5' 42' ' . E 2B 2' 2552 ; 2' ?
' ' 2B+E ' 4 ' ; #
3' # ? > ' Q2*M *3\5? 3 5*3&/? "; ' $9'
= 8 32' &283' 952' 2' ; 2*3:9@: @B 9V+' : 82? 3:9@:9B8'
= 8 3 532' IL$9' <B:5:5<2' 32.B' 3: .9+3 ' : ' = '
8 3 532' ?' A' &
;B '0)[$B,) $1 ' ' $$?' Q2]
1 5' ' ' "G1 'L$.($ $1G' . 'J ' ? :. ' .1$'
, $ ' 1 'J ' 1? ' ?? ' : M M' I $' .
24 J92B' 52' <B:9E 253' ?92' 8:5' 4 8 <<: 532 ; 253'
?9&95 JB 547' G 8 3 3 :5' +2' B288 8 88 3? . B25+? ?'
2' e =29B' 3 8 ; G 58.: ; ; 95 . ++ ? 23' + ' 4 .8 :5'
; : 58' E2BG298 ? 7 ' # 83? 42' @ 'E ?%' IL 6 B'
3. + B2 ; 2536* 5:2B3 3942' 4 58' <:5. 3 :@ ' 'B'
'2B' E2.' = 8 3 3 :5
'? ' B ' ! ' =28 3 3 :5? ' '%$
-' (! ' B:E25^? &* (! 3' 28< J5' &)'
@ ' 3 +' R ! 3:\ :52' 49' 3 3 5' & ! - ' 42'
- # ' =28 32B
' Q *M *3 /? 5' - ' IL 6 & BB 32B 5.2B3 5'
+3' 89@23' 42 * ' = 8 3 3 253B2' +2' 4 8 B' 23' 3 ' =:532? @
E +' U ' 1 ' B ' N' ' <+9< B3' 428' J258' 89B' .2332'
?9283 :5' 5&= 8 3253' < 8' G2 9. :9<? 'D!7#/ '/ - Z
++? " ' # 2' +:332? 2++2' = 8 32? W53 5' ; :3' 2++2' 283?
3: ; 2? ' ? & ' ; ? >'D! :5' <:9A? 5 +2A G+2' 25L'
8 ' 342+ + ? & ' E9' ?92' 8:5' 42E: B' 23' 5& '<: 53' e 83 ? '
' # & ' ? ' :98' 52' 8 9B 2A' .B2 B2' ?? 92+' @

<: 53' @& ' 23 ' + J ' ?92' E:98 R2M <9' = 8 32B' 89B'
; 28' 8253 ; 2538' <:9B' E:98? ?92' @& ' ; 5 283' 8' 4 58'
3:9328' +28' :.. 8 :58' 42' ; ' E 2? - ' :X25:5? '
:.3' "CC" ' R' 293' 428' 254B: 38' :9' + ++93' B 5.= B'
42' + BJ28' .B2E 8828' 23' 8 932B' 4&952' J+ .2' ' D 93B2?
9' B 8?92' 42' 3: ; G2B' 253B2' 429A' 23' 42' 4 8< B +3B:'
<:9B' @ ; 8? +28' <B2 ; 2B8' = 8 3 B253? ; 8' :5' +29B'
.B ' < B' 42BB B2' 42' 82' = 32B? #7 ' K ' " ' @ '
S? 7' 2' < ; <=+ 3 B2' H ' ' :9B 2BI? ?9 ' 52' 82' J2'
5 3' 4& 9.952' E B3 ' <2B ++2982 4 B2?= 8 3 389B' 95'
; :3?89B952E BJ9+2? 82' ; :53B 33' ; 42' +:932' .: '
42' < B+:B ?9 5& 3 3 < 8' 42' + ' + 9J92' 42' 828' 9329B8?
'8D75# '3 E' ! ' (' F # 8 32B' ? E2.' & 9 5 3 '
3' 4:53' ; 25' .:29B' G 8 32' ' +9' <B+2B? ' C ' " '
1 # ' 0 " ' ' 5&= 8 3 ' < 8' ' E:B 82B' 8:5' E 8 :5' 9'
B 8?92' 42' 8&25' B2' 95' 4 5J2B29A' 2552 ; ?' '
D ; ? ' ' #28 32B' 42? E2.' 95' 5 5 3 ' # 8 32B' 4&:'
G B? 3 B42B' ' :G B? B2 ; 233B2' ' :G2 B? :&283' B2' &:29'
EB2' 42' 29' E2.' 52J+ J25.2? ' <B&! # ' 7#'
>! ' # / ' +8' 5&=28 3253' < 8' 42' :B 3 ?92B' 428'
2=:828' ?9 ' 8:53' < B 328? ' ' >25& ' < 8G '
8 3 ' 42' E:98' 8:9 ; 233B2' ; 28' 4:9328' 89B' .2332' ; '
3 B2? ' + ' #! ' " ' 0#7 ' M ' IL E2.' 95' 5+ '
5 3 ?:5' 4 3' = G 392+ +2 ; 253' = 8 32B P ; 8' =28 32B' 42'
283' .:BB2.3' 988 ' IL 58' = 8 32B? 8 58' + ' ; : 54B2'
32BJ E2B8 3 :5' 58' .2' JB 54' 5 9 B J2? & B ; 2?
.: ; ; 2' 95' E 882 9' G 339' < B' + ' <+98' =:BB G+2' 32 ; '
< 32? @23 3? 8 58' = 8 32B? ' .2332' ; 28' 42' 52 J2' 23'
42' J+ .2' 3:93' .2' ?9 ' <:9E 3' <<28 53 B' :9' B23 B42B'
8 ' ; B.=2? ' K ' " ' @ ' G ' " ' IL ? B3 .9'
+ 2B2 ; 253' 2' < 8' 3B:9E2B' . +2 ; 253' .2' ?9&:5' E293'
4 B2' ' 283*.2' ?92? =28 3 53? 3B2 ; G+ 53? +' 52' 4 '
?92' G 25' <25.2' ?9& +' E +' <B ; 4 3 ? ' U ' 1 '
? " ' 2' 5 :9E2 9' . B:5' 3B2 ; G+ 53? 4 .:+:B ?
G2B.=2' 25' E 5' 8:5' 4 8.:9B8' 89B' 8 ' + 5J92' J B2'
' = 8 32? +' G J 2 ? ' +7 #' E ' LL ' 82' .: 5'
@9J92' E2.' & 9 + B2' 5! #
-' ! ' &= 3 3 8< B 24 58+2' AE 6 8 .+2 .: ; ; 2'
:5' E:+3 < B' ! :53 J52' 9' ; :3 6 N' 23' :BK
52 +2' '25.:B2' 8<'B22' 2' = 8 32B? ; 8'23B:9J B'25'
.:B' ; : 58? C - ' 5? " ' 9B' ?9:' :+3 B2' B2 ; B?92?
\' ' & ' ' 49B? :5' 52' 3' <+98' 42' 4 .9+3 ' 42' 4 B2'
9? :9B4&=9 ? @&=28 32? @2' 5&=28 32' <+98? 5' ' 5&R' E 3'
<: 53' 42' 49B23 ' 8< B2B' &=' 42' .2' E2BG2P' ; 8' +2'
3' 283' ?92' &98 J2' 25' ' .= 5J ' + ' <B:5:5. 3 :5
' ' 3' & # ' B ?9253 3 ' 42' & # # '
3B2' 33 .= ? 4G B253
' Q *8<2B/? ' ' ; ' 4:55 ' < B : 8' '+ '
<+ 5 32' (598? +:B8?9&2+2' GB + 2' <B 8' '.:9.=2B' +9'
8:+2 +
-' (! ' 3' & #7 ' & 3: +2' 49' 8: B? 49' JB2:'
>: 32<:@? &:.. 4253? +2' .:9.= 53' QE:R' G
3' # ' Q *8< *B *4 2/? ' ' ' 28' =28'
< B 4228? ; ++2' 42' <+ 5328' 4 32' 988' 9B 53 . 28?
' + ?92++2' &:B 5J2B' << B3 293
' ' K # "
3' ? ,* ' Q *8< *B *4&/? @' ' ' 2B ; 2' 42'
; R3=:+:J 2' ; ' 42' 3BG 8' 8:29B8? ++28' 4& #28< B98'
2' @ B4 5' 428' #28<2B 428' 283' ; 29A' 4 58' + ' G+2?
< B.2' ?9& +' <B:49 8 3' 428' <: ; ; 28' 4&:B' J B4228' < B'
95' 4 J:5? 23' ?92' .28' 3B: 8' 8:29B8 R' 5:9BB 88 253'
428' ; :93:58' 4:53' + ' 3: 8:5' 3 34&:B' Lh 2B ; 2' 4& 8'
3B:5: ; 2' 5' 428' 5: ; 8' 4:55 8' 9A' + 428? < B.2'
?92' +28' <: 328' +28' 4 8253 ++28' 4& 3+ 8' 23 4&#28<2'
B 8? 2++28' 8:53' 988' <<2+ 28' 3+ 53 428B
-' (! ' D :58< :P? +2' .:9.= 53' 5' 8:9E253' -)'
32549' ?92' +28' < : ; 28' 4&:B' 49' @ B4 5' 428' #28<2'
<428' 3 253' 428' :B 5J28
3# ' Q *8<2*B *4 *5&/?')' ' 2B ; 2' 42'
.= ; 2' B 5. <2' 4 .:9E2B3' 4 58' + ' < B3 2' G+ 5.=2'
?9 ' B2.:9EB2' +28' B9 38' 428' =28< B 4 28
'# $ ' Q *8< *B *\&/? 6' 2B ; 2' 42' J :'
JB <= 2' 5 5&9+2' =28< B ?92? &+3 + 2
' ' 3' & #7 ' D:.. 4253
'# ' 5@# G' '# ' 5' 428' 5: ; 8' E9 J B28' 42'
+ ' E28.2' T ?
3' # ' Q *M98&/?' ' ' :R' 898
3' # (# ' Q *M *\ * *8 /? ' ' ' ' : ; '
4&952' 82.32' 42' & J+ 82' 4& B 253? 522' 9' A 6 8 .+'
4 58' +28' ; :5 83 B28' 49' ; :53 3=:8? 23' :9 ' &:5' 25'
82 J5 3? 4& <B 8' & GG ' ; :5? ?92? <:9B' 8& +2E2B'
' + ' 8. 25.2' 428' .G:828' 4 E 528? +' 93' 82' B2.92 = B'
4 58' + ' 8:+ 3942? 5.+ 52B' + ' 3 32' 89B' + ' <: 3B 52' 23'
B2J B42B 33253 E2 ; 253' 8:5' 5: ; GB +? ?92' ?' &:5' 25'
.:5.253B 283:9328' +28' :B.28' 42' & B 2? ?92' Q# G:B4'
:5' 5&R' 3B:9E2' ?92' 3 5 GB28? ; 8' ?92' <29' ' <29' + '
+9 ; B2' 5 3? .+ 32' 23' B R:552
' ' D#:9A :EB P? ?9 ' .G2B.=2' +2' B2<:8? 4 '
594 ' B2<:8
3' # ? # ? .*8' 0 # ' /0 #
b' 6 , ' ' 6 - ' <B A2' ?9 ' 8 J5 '
93B2? 4 B25 " 42' <+98 29B8' ' 5B28? 23' E 253' 4 '
JB2.' +W< : .? 93B2

[illegible]

[illegible]

[illegible]

42 ; '42. ; 2' ! :42 42 3B 32 ; 253 4 58 +2?92+ 95
43 3 ; :BG 42 283 4. B32 25' 53B:49 8 53 95' 43 3 ; :B*
G 42 4 +4B23 3 q 0
-' (R'D @#! '23 B4N:W0 ; + 4 2
'? , - . 'Q *32*B:*<&/0' ' ' ; ++2 42
& B4B' 428 .B983 .48 GB 5.G :<:4280 .: ; <B25 53
229A 4:53 +28 ?9 3B2 42B5 2B8 < 248 9' ; : 58 8:53
; 93 ?928 23 <B:<B28 6'+ '5 3 3 :5
-' B !' #! 'W: W? < 24
'# c c 'Q4*34*B:*<4*3 * &>0' "; ' , # '
42 G:3 5 ?92' + 532 G434B:<43 20 <+ 532 4:53 +28
<43 +28 8:53 4 4B2538 253B2 29A
-' (!'D #! '23
3' # #+ ! $ 'Q4*34*B<*+G*J ; *M*
\6/0 "; ' , # '42 ; 442. 52' 9G83 5.280 =434B:*
<=+2J ; 8 ?5280 89G83 5.28 9A?92+28 + ' 3G4:B 2
33 G92 +2 <:9E: B 42 89G83 392B 95' ; :42 < B3 :9*
+ 2B' 4& BB 3 3 G5 \' 95' 93B2
' , 'A #! '23 & /
%' # #('Q4*+4*B:* +*+&/0' "; ' 2B ; 2 42
G:3 5 ?92' + 532 =434B:<=R+20 <+ 538 4:53 +28
29+++28 :9 :+ :+28 8:53 4 882 ; G+' 28
'? $ 'D #! '"%1!OO*.'$"!-&&"
j' #('Q4*32*B:* +*+ 2/0 ' ' 2B ; 2
42 G:3 5 ?92' 3 3 4&952 <+ 532 =434B:<=R+2
'6 -.@# * 'Q4*34*B:*<+ * 2/0 ' ' 2B ; 2
42' < 3=:+:J 2' 454B43 :5 42 <B<49 38 ; :BG 428
43B 5J2B8 6' &4.:5: ; 2 5 ; +20 < B 2A2 ; <+2 +2 39*
G2B.9+2
, 'D" # '23 5S4V5P0 .3 :5 42 :B ; 2B
'? , - .@# 'Q4*34*B:*<+ *8 ; & / 0' 6' '
2B ; 2 42*< 3=:+:J 2' '89G83 5.2 :B ; 53 3:932
<B:49.3 :5 ; :BG 42 43B 5J4B2 6' 4.:5: ; 2
V-'? $ 'D A#! '23 %2O#!4O'$*'+O%-*/
%' # A $ 'Q4*+4*B:*<+ *83 *\&/0 ";'
$9' 'B <<:B3 4 &=434B:<+ 8 2
3'0 &, -. - , 'QN*34*B:*<:*B&/0' "; ' 2B ; 2 42
M::+:J 2' :+R< 2B =434B:<:B20 <:+R< 2B 4:53 +28 :9*
E2B39B28 428 .'9+28 8:53 4 B J328 4 583:<8+28 8258
-' (!'D #! '23 !#
3'? -. * ' N 34*B:*<8 *4&/0 "; ' 2B ; 2' 42
; 54B :J 2' $9' 82 <B282532 8:98 95 8<2.3 <B:<B2
0\' 44J9 82B +28 <B:<B 4348 8<4. +88 23 . B .34B 83*
0?922 42 + '89G8325.20
-'0 (!'D # '23 N"<Q\'E920 << B25.2
3'? , - , (* 'Q4*34*B:*B4*\8 2/0 ' ' 2B ; 2
42 ; 442. 520 4<B E 3 :5 42 & <<43 3
' U N D # '23 4<2^'^0 <<43 3
, - 8* ! 'Q4*34*B:*88 * 5+0 ' ' ' 2552
42 J4:JB <G 2' :B5 ?9& 5' 4:552 9A = G 3 538 428
M:528 32 ; <4B4280 < B.2 ?920 +2 8:+2 + 43 533:9@:9B8
<:9B 29A0 :9 ; 4B 4 :5 +0 :9 82<3253B :5 +0 +28 : ; K
GB28 ; 4B 4 25528 428 958 <:B3253 9' 5:B40 3 54 8
?92 .2++28 428 93B28 <:B3253 9 ; 4
' , ']D# !,7!' 42 5<:$ 93B20 23 :A :30
: ; GB2
3'? , - - 'Q4'34*B:*8:* ; & /0' ' ' K
; ++2 42 <: 88:58 =:+:GB 5.=28 4:53 +2' .434 4B: 3 23
+2 .434 J 9.=2 4 ' .:B<8'52 82 B2882 ; G+253 < 8
'M ?'D #! '"%"-#E%O' *'4(
3'6 , - ", - .? 'Q4*34*B:*83B:* /0 "; ' 2B ; 2
42 M::+:J 2' $9' 3:9 ; <' 25 8258 5E2B82 43+ 8258
:B4 5 B2' 0 6]
'D #! '#"' '<4:2 E'3:9 ; 2B
'6 -"#(* 'Q4*34*B:*3 *\8 2/0' ' 0 2B ; 2
42 34B 3:+:J 2' 5: ; +2.: ; <+2A20 5:5 << B2?32 6
2A34B 29B0 52 ; 233 53 34383 .+2 ' ?.952 :5.3 :50
23 ?9'.:58 832 25' 428 3B 58<:8 3 :58 4&:BJ 5280 < B
2A2 ; <+2 ?9 54' + 'B 32 283 6' 4B: 32 2 3'+2 : 2 6
J 9.=2
' , Q'D #! * '23 4^W0 BB 5J2 ; 253
3'? , -"6 @&: Q 4*34*B:*34*3 *\& /0' "; '
2B ; 2 42 + '<= +:8:<= 2 42 53' B 58.254 53'! 4*
3 <=R8 ?92 5434B:3e ?920 8. 25.2 428 .=:828 G*
8:+528
-' (!'D #! '23 4 A."?9'<:82]'3=482
428 .=:828 ?9' 8:53 4:' & 93B2 .434 42 2A<4*
B 25.2
'? , -"- 'Q4*34*B:*3:* ; &/0 (*' 2B ; 2 42
G:3 5 ?92' :53 +28 4 E 8 :58 5&:53 < 8 + *B54 ; 2
:B ; 2'* :B:++2 =434B:3:532
'D #! '23'3:< /0 .3 :5
3 # 3: 'Q2*34*B:*3:< 2/0 ' ' 2B ; 2
4& 5 3: ; 2 < 3G:+:J ?92' # 432.:3' 2' <+ 83 ?920
:B ; 3 :5 42 3 8898 8 ; <+28 :9' <: ; <: ; 8 25' 428
254B:+38 45' .B<8 :40 \' &43 3 5 :5 5 '0*:5' 52 +28
B25.:53B2 <: 53
' 'D #! '23 : 3:^0 + 29
'? " , - . 'Q4*34*B:*3B:*<&/0 "; ' 2B : 2 42
G:3 5 ?92' ; GBR:5 G434B:3B:<20 2 ; GBR:5' 'B 4*
.9+2 4+: J542 49 G +2 8 58 +9' 43B2 4 ; 43B +2 ; ; 3
:<<:842
, '# $ 'D #! '"%.4*-'--'2*/."'(-*/

' ' + ' + !2 'B ! !88

'? -"U.* !' Q4*34*B:*3 *< 5/0 "; ' 2B ; 2
42 34B 3:+:J 2' ! :583B28 =432B:3R< 2580 ; :583B28
4:9G+28 =2M +28?92+8 +2 < B 8 32 283 898<2549 6'+ '
< B:' 534B 29B2 49 .:B<8 49 89@23 <B 5. < +
-' (!'D #! '23E4A: .0 3R<2
! 'Q=4*35 ; 5/0 ' ' 3B2 42 4 J5 34 .=2M
+28 :8 ?928
' ! :3 B9882
3' # 'Q=4*3:9*44/ :9 # '
Q=4*3:9B*44/0 ' ' 2B ; 2 E 2 ++ ' 2@2952 .= <:5' '
+2 <:9+23 882M JB:8 <:9B 43B2 .= <:554
'O I 8' :83 ' . 5? .:.=:580 E 5J3 =2*
3:942 9A0 D - / #' 0 6' LLAE6 8' :9B 3B: 8 =23:5*
42 9+A0 ?9 5M2 8:+80 D '" '(& # '%6 84B 20 0
<' N
-' ! ' 8*+ 3' & " "7 ' .:+:5? 42 5.'
= 93* ++2 ; '& / ' .4+G 3 B20 <<B253 ' & <B28
49 5J20 +2 =43:9B42 9 '434 58' 5: ; ; 4 49 &!)'
"7 ' ?9' +2 :9B5 88 3 6 828 ; 3B28? 4& <B48
2M0 +2 5: ; ' 42 & "7 ' .4+G 3 B20 5:E .20 '
434 3B 58 4B4 < B <+ 8 532B 2 9 .= <:5
3' # 'Q=4*3B4/0 8' ' 29 <+ 534 42 =43B28
? , 'Q=4*3B&/0' ' ' B 54 BGB2 42 + ' ; ++2
428 ; 253 .4280 ?9'<:B32 95 B9 3 <<2+2 520
/7 ' 5 ('+' 30 4 58 ; :5 . G 523 88 8 9
< 24 428 =43B280 B2 4 B2 9A 4.=:8 428 8:33 828
.= ; <43B280 '@ ' M' 325490 .=28 3RB20 6
& GB' 42 .2 =43B20 9 ; 44 328 428 B8 89B 3' 432
.= ; <43B20 ',# "'" ' 7(! '"'R #/'
-' # 0 A 56 8' 28:98 95'= 83B2 B ; 2 3 hJ B5'
42 B ; 2 9MI0 '95' 4:9+.' . 53 28.:932 3 2 J253 ++2
< 83:B2++20 D ' '"' ' #'3'AA 50 <' %%7' LLAE 68'
28 < 580 8 < 580 =283B28 :9 :9832 9A 4 38 988'
9A0 23 +28 .= B ; 280 8:53 BGB28 42 ; :53 J5:' B: 420
'55 8 # 80 CWC
' 'e ++:50 &)'49' + ; 54 & #'K N
#' BGB 882 9 P G 8* ++2 ; 'K #' @2952 =43B2? +*
+2 ; 'D #'@2952 BGB2 42 G:8?923
'# ' 'Q=29/0 #A #; ! -'?9 0 B4<43420 2A*
<B ; 2 +2 4:9320 952 82.B432 <25822' #29' =29'
E:98 .B:R2M ?9& +' B4988 B ' : ; ; 253 E *3* +^ - #29''
=29
'# 'Q=29/0 ' ' 5. 25 32552 42 ; B 52'
! :R25 E 882 '?9 0 <:9B &:B4 5 B20 5E 3 & BB 4B2
B:54" 23 ?9' 5& E 3 ?9&95 JB 54 ; 43 E2.'952 E: +2
2A3B :B4 5 B20
' + ; 540 =93? G:++' K7 6
3' 86 'Q=29*.G4*B&/0 8' ' 2B ; 2 42 G:3 *
5 ?52' 25B2 42 <+ 5328 8 A B J''4& ; 4B ?92 44*
4 2 9 G:3 5 832 ++2 ; 54 #29.=2B Q NC* C"C/0
'# 'Q=29*J=2*5:5/0 ' ' B 234 42
<: B2 \' . 4B2
'Q29B/0 8' ; ' :552 :B39543 .= 5.2 G29*
B29 2' 254 53 3:93 B95 E2B8 42 8:5 =29B 43:5540
#' ' +8 3 255253 \'JB 54 =29B 4:' .2 ?92 328
5.43B28 0 ,7 -@ 'E '>2 52 .B 54B '<\8
42 4 B2 ?92 @2 <2582 E: B 29 G2 9.:9< 4&=29B 42
; &43B2 B25 .:5' '428 ; '@2 5288)' .2B3 58 4 2*
; 58 ?9' ; &:53 .:549 3 \' 428 .:58 44B 3 :58 23 428
; A ; 28 4:53 @0 ' :B ; 4 952 ; 43=:42 0 '
D & ' '@& + . *42E 53 3B:9E4 ?92+?928 E4B 348
4 58 +28 8. 25.28 0 @2' <9 8 4 B2 ?92 .2 52 8:53 2
428 433 328 23 428 4'254 5.28 42 . 5? :9' 8 A <B 5*
. < +28 4 .9 348 ?9:' @& 0 89B ; :534280 23 ?92 @2
.: ; <32 <:9B 3+3 53 42 G 3 28 :9 @9 '29 &=29B 42
; :5 .4340 '%M' ' $9' &243 4 3^ $92 5:3B2 =29B
93*8' <B: .G2 23 8 343 82 <2B4 30 '1"'9 0 "' 9
3&25'8:9E 2580 55 P 3 53 4&=29B 23 3 53 42 J+: B2
2 <29E253 < 8 8 343 8:B3 B 42 3' ; 2 ; : B20 "'1 - - '
' ' 9 882 +2 @9832 .2+0 .:53253 42 ; ' ; 520
: ; G+2B 4&=29B 23 42 @:9B8 :+R29.32 23 9+ 52I
'D! *' " ' 2 E:98 : 2582M < 8 ' .:3 =29B 42
' 5528 $9' ; 2 B254 3 53 42 = 2=80 ; 2 .:932
95 <25 42 + B ; 2 0 "'O! 'E0 %' '<B 5.2 5*
3 :.=980 42E259 5:9E2 9 B: 0 2 ; G+ '42 3:98 .4328
3B3452B &G29B E2:' 8: 0 ; '.!"!/' '"' &=29B 42
E:98 <G4 B + 332B '8'4:9+29B0 '3G' 0 " :
<9 8 :B ; 2B < B &=29B 42 828 2A<+: 38 2 32 ; <+2
?9& 5 ; 4 ; 2 =29B 5&' :B ; 2 ?9^952 :80 '
DK '0 N' A<+ ?92M*E:9 0 8. '20 0"3 .B:R2M < B
E* 5.2 $92 E:3B2 =29B 283 .2B3 50 8& '283 25 ; '
<9 88 5.20 ' #'- ' >2 R:98 4<:9820
J5\80 23 .253 : 8 + 0 @:9 ; 42 :98 42E2M =45 B
&=29B 42 E:3B2 4283 5420 <0 D '" '50 ' #29B
82 < a 3' :9 G:5=29B <2 8 9B 3 253B2B? ' '
\ 30=B B29M ?9' 283 6 : 5' 8 23 $ '.28'' 42
&43B20 + ' 8&" 'MBE' 4 ; :3 4&=29B0 ?9 6 E:B8 3
+ 'E2B8 . 3 G50 23 ?9 '52 .=2?92 <: 53 &:B2 +20 283
9@:9B40=9'G 55'42 5:3B2 + 9J920 9 '. '7#
1! '5 +8:' 4 30 2 ; < B+ 53 428 <2B8:55280 42 .2+8
?5' 3+2 G:5=29B 42' 2 520 =29B 42 + ' B 5.2 23
42 3:93 95 E2B80 $9'E:R2M .=2?92@: B 3 53 4&= : ; *
; J48 4 E2B8 $92 <B482532 + ' ; 988 9A < 248 42*

E:3B2 ; J20 6'BE0 F' =3 ; :5 =29B0 + 283
EB 0 8' 328 448 B8 82.:54253 23 ; :9B ?9' < B'3
23 GB +32 4 58 328 R29A0>2 5& 'B 25 448:B ; 8 \'42*
; 542B 9A 4 29A0 ' ' 'E0 6' LL B:E2B=28'
.2 ?9' 3+' :B3952 428 958 . 982 + 'B9 52 428 9K
3B28? 230 <+98 8:9E2530 3:93 44<254 42 + '.= 5.2'L '
'<+98 4&=29B ?92 42 8 J28820 <+98 40=29B ?92 42
8. 25.2082 4 3 4&95' = : ; 2 ?9 0 ; +JB2 8:9 <29 4& 5*
4983B 2 :9 42 <B9425.20 52 + 88' < 8 42 B 988 B
-' !'$9:+?92 .2 ; :3 8: 3 <29 98 340 .: ; ; '
+B2838 4 58 + ' + :.93 :5 , ' ' , ' + 50283
< 8 ; <:88 G+2 42 +2 G 25 2 ; <+:R2B 25 <:\8 2 :9
4 58 + '<B:82 /
-'8*H' ?#6?' " ' &=29B0 ?9'0' +2 8258 #0
.= 5.2 =29B2982 :9 ; +=29B29820 .: ; ; 2 +2 <B:9E8
' 5& '<+98 ?92 .2+9+ 42 G:552 .= 5.2? +2
G:5=29B 283 + ' .:53 59 3R 42 0=29B' 2332 59 5.2
82 3B:9E2 G 25 ; B? B22 4 58 .28 E2B8' >2 42.:9EB2
8 58 <2 52 0 $9&95 <\B + 89 3 8:9E253 + ' .:5?943
4&95 .:29B0 3 ?92 &=29B 4&23B2 ; \' 5&283 < 83:5
@:9B8 G:5=29B0 c '& ' E0 N
' / 8& 1 ' ' B8082BE B8233 +258 H448 BI ! 2<:.*
B:53 25.:B E +: B0 1!7('A ' '@& 3254B '>: 2
4& ; :9.0 82 G:5 2 +B ; &' ; 520 'A E'LLA9 6 8'
H$92I' ; 2 28 < B 8' JB .2 +9' B25E: 3 G:5
2$B0 D # ' & 2 B:R +28 + 83 <2+2B0 23 +29B
42 ; 54 '?92 + +29B 82 ; G+: 3 42 .283 =29B H E25*
39B2I0 > ' FN' 'AE6 8' #2B.9+280 28325492
8' ; 50 4 83 ?92 + ..2<3: 3 G 25 .2+' _B H 9<9*
7 M' ' 0 70 5 , !' :B.20 = B4 ; 253
4&28.=2E2B H@2I' '4: 5 <:9B 8:5 29B 28+2E2B0 :'
'<' ' 'O I' 8' $9 53 + 93 '@2 8.298 ?92
8:5 =29B 52 J 8: 3 <: 53 29 B23 J52P . B ; 28 4*
E2539B2 +9R 983 4E2592 <:9B 9R 23 <:9B 8238 ; R80
0 # !# ' ' '6 " '8 2 ; G+: 3 ?92 3:9328
.=:828 ++ 88253 \' 8:5 <+ 8 B0 ; 8 988'8:5 8258
+9R R4: 3 G 25 \' +9R B2 E25 B .283 =29B0 .:99'
0 ' S 6 8' 29 E:98 4: 53 + ' :B3952 23 =29B0
#2 ++29B ?92 5& '283\' +2 ; 250 :' 'VFF' :98
5 E J 8 ; 28 < B 3B:R8 @:9B8? :5 ?9 3B 28 ; 20 25 G:5
=29B0 <<B:.= 8 ; 28 42 5 2B5:R80 ' :530 E0
Y' <<:B3 53:' +29B =29B :9 ; +=29B \'+ 'B 8:5
4 E 520 ' '$%E
' e ++0 / , ' .= 5.2 =29B2982 :9
; +=29B29820 <B48 J2? <B:E25P0 , , ' , , '
, 3 28< J5' , '<:B39J' , ') ' , , '
5&:P4 9'+ 3' , , 'QE:R' " " ' / ' 9A .:5@2.K
39B28 <B:<:8228 \' B3 .+2 , , ' @:932M ?92 .2BK
3 58 \R ; :+:J 8328 3 B253 , , , '42 / ' : 82 90
23 4&95 B 4 . + ?9' 283 4 58 +2 + 3 5 ' = E B*
42B0 23 4 58 +2 58.B 30 '29 .B 2B' 2B3 58
R3R ; :+:JG328 :53 3 B\' , '42 '=29B2? ; 8
+28 5. 25528 :B ; 280 ?9'8:53 3:9328 4 28R++ G ?9280
52 <2B ; 233253 < 8 952 < B2 +2 \3R ; :+:J 2? +2 8258
<B ; 3 '42 <B\8 J2 \3 3 25.:B2 8' ; <:<2B8 83 530 ?9& 9
O I 8 \.+2 2B.=29B2 3B 49 3 , , , '< B 9B' 2
<B2 ; aB 2A2 ; <+2 32 , ' ; :5:8R++ G2 2830 4 58
5:3B2 = 83:B ?920 9 A E6 8 G.+20 .=2M ! 2G 93
'Q29*B&/0' 'LL 6 'E 5J3*?9 3B \ ; 2 < B*
3 2 49 @:9B0 .&283'* + B2 4&952 B2E:+93 :5 .: ; <+232 42
+ '32BB2 89B 2++2*; \ ; 2' &=29B2 82 4 E 82 25'8: M 538
; 59328' 28 E 5J3*?9 3B2 =29B28 49 @:9B' :9M'
=29B28 42 @:9B 23 4:9M2 =29B28 42 59 3' + R' '952
=29B2 ?92 @2 E:98 2.:932? 283*.2 ?92 5:98 @:9:58
.'952 ; :\4 2^ % '0 , *' '9' 2 <29 4&=29*
B28 ' 9 ; : ; 253 42 ; :9B BI 8 532 ; 253 < 88\B'
< B ; ' +28 <+98 B9428 \<B29E28 23 4 58 +28 8253 **
; 2 38 +28 <+98 <9B8 49 .=B 83 5 8 ; 2 3 255253 + 29
3:9328 829+28 4&95 \J2 .. : ; <+ 0 '!, * '&C '
:55:58 \' .2 JB 54 .29EB2 H+ '4283B9.3 :5 49 +9*
3B 51 952 =29B2 4& G83 <25.2? 3 ?9& 9 B23:9B 3 5343
95 ; <+2 4 \@2952B ' '=, ' E2.'29A0
4 58 952 =29B20 + 5:98 B\.:5.+20 '$" '
' '59 3 BB E2 +:B80 952 59 3 42 82 M2 =29B28?
; 80 89B .2332 52 J2 ?9' .:9EB2 3:930 :5'5:'8 + : '
8& BB\32B0 :5 8& 882: B0 :"' 82 B2<:82B0 ; + 3B:9E23
?92+?928 B .528 <:9B 82 5:3 BB B0 8\:9 0 ' '43
.' S0 * ' ! 8 @98?92 4 58 + ' 82 5 428 =29B28
:B395\28 >2 52 8 8 ?92+2 E: '?92 @&2532548 B2325*
3B' ! 2 <:9B89 3 0 ' ' 0 3:' LL 5 952
=29B20 82 4 30 4&952 P: 5' 54232B ; 5\20 <:9B 95
.:9B3 28< .2 42 32 ; <8' &2 ; <2B29B R 53 2 'G28: 5
4& BJ2530 +3B:9E '25 952 =29B2 < B+29B ; :R25' H428
5 5. 2B8/.2 ?9& + 5& 9B 3< 8 29 25 8 A ; : 8 < B+28
E:+28 :B4 5 B280E: ' ' 1 , 'LL 52 =29B2 42 .=2*
; 50 :90 8 ; <+2 ; 2530 952 =29B20 28< .2 ? '' :5
< B.:9B3 25 ; 2 =29B2 42 ; B.=2' :98 23 :58 '
=9++ =29B28 42 B 80 8\E' 'L@#29B2 \J +20 .2++2
?9' 283 4:55\2 < B =:B+:J2 .: ; ; 95 +2 'LL 0+2B ; 2
4& 83B:5: ; 2' #29B28 8: B28 ; :R25528 23 \J +280
=29B28 4:53 .= .952 283 + 'E+5J3*'9 3B \ ; 2 < B3 8
4&95'@:9B ; :R250 2&283**4 B2 4&95 B23:9B ; :R25' 49

F

Q:+2 +' 9' ; 3 4 25 ' #29B28 8:+ B28 EB 28 .2++28 ?9 '
8:53 ; B?9228 89B 5:8 . 4B 58 8:+ B28 23 ?9 ' E
B 253 ' B 8:5 428 54J + 348 42 + ' ; B.G2 49 J+:G2
32BB283B2 ' 2B ; 2 4 ' ; B 52 ' #29B2 42 B 8 =29B2
?92 :5 2: ; <32 ' B 8 Q:4' < 882 +2 <B2 ; 2B ; 4
B 4 25/ 4 583 53 4952 :G82BE 3 :5 32 ' G:B4 '
' #29B2 42 B 8 82 4 3 988 ' 42 =29B2 32++2 ?9 2++2
283 ' B 8 23 89B + ?92++2 :5 B4J+2 3:9328 +28 =:B
+:J28 428 .=2 ; 58 42 2B ' #29B2 42 JB .2 ?9 B3
4 =29B2 42 JB _.2 42+ ' ..:B42 9 42+4 49 32B ; 2
A4 ' ' 3B2 4 =29B2 43B2 2 ; <+:R8 4 3 53 < B =29B2 '
' B254B2 9.' :9EB 2B 95 '=: ; ; 2 42 <2 52 95 K
.B2 95 GB :+23 4 =29B2 8 25 82BE B 4 3 53 < B
=29B2 ' 3B2 4 =29B2 E: B =29B2 2A .32 ' 328
:98 4 =29B2 :3B2 ; :53B2 283*2++2 4 =29B2 2
; 233B2 ' =29B2 ' :B2 4 =29B2 BB E2B @9832 9
; : ; 253 .:5E259 ' E: B =29B2 E: B 952 ; :53B2
89B 8: ' ' E: B =29B2 82 4 3 988 ' 42 =29B2 ?92
; B?92 + ' ; :53B2 ' $92++2 =29B2 E2M*E:98 '
; + 2B2 ; 253 ' E: B < 8 952 =29B2 ' 8: 43B2 32+
+2 ; 253 : : .9<4 ?9 :5 52 <293 4 8<:82B 4 952 =29B2 '
' 5 4 3 42 ; 4 ; 2 5 E: B < 8 952 =29B2 42 B2<:8
42 B2+4.=2 ' ++ <3 ?92 ; 253 ' 28 =29B28 253 4B28
:9 8 ; <+2 ; 253 428 =29B28 82 4 3 <:9B <254 53
<+98 29B8 =29B28 ' +8 B283253 428 =29B28 8 58 B 25
82 4 B2 ' 5 .2 8258 ! ; 2 4 ' 2E J54 ' 4 3
9 + 29 42 ++2 283 @:+ 2 42 3:93 < : 53 @2 ; R
; 982 +28 =29B28 253 4B28 = ' ; ' NC '
' 58 + ' + 39BJ 2 . 3=:+ ?92 +28 <B 4B28 42 ?9
B 532 =29B28 428 ?9 B 532 =29B28 :9 2++ <3 ?92K
; 253 +28 ?9 B 532 =29B28 <B 4B28 ?9 ' 49B253 ?9 K
B 532 =29B28 23 ?9 ' 82 :53 <254 53 3B: 8 @:9B8
32 ; <8 49B 53 +2?92+ +2 8 53 8 .B2 ; 253 283 2A<:84
4 58 2J+ 82 ' 2 ; *=29B2 + ' ; : 3 4 4 952 =29B2 '
23 A* ' 52 8 9B 253 3 253B2325 B 952 42 ; *=29B2
8 58 32 4 B2 .253 : 8 ?92 +2 B:3 B ; 2 M .+ E ' 9
+233 ' : 9 8 S ' 4 8 3= : +2 9 ' :9E252M*E:98
?92 @ 9B ' 3:9@:9B8 952 42 ; *=29B2 ' E:98 4:552B
E ! = ' # ' VB 6 # ' 6 < B3 ' 6 +2?:5 '
' 58 42 ; *=29B2 82 4 3 < B GB4E 3 :5 <:9B 4 58
952 42 ; *=29B2 ' C4 ' E ' $9 B34 =29B2
+2 ?9 B3 4 952 =29B2 ' Q ' B2 52 ' 3 53M38 9E42 3 53B3
<B28?92 <B 82 .= 5J2 53 42 :B3952 ' .=2?92 ?9 B3
4 =29B2 ' < ' & ' J ' ! 9E 8 ?9 B3
4 G29B2 G:5 ?9 B34 =29B2 ?9 B3 4 =29B2 42 G2+ 8
E:R ' Q ' 0 & ,' 7# ' 58 +2 + 5J J2 4+2E4 23
<:43 ?92 +28 =29B28 +2 32 ; <8 + ' 49B42 ' 988 343
?3 :5 .2882 <:9B 5:98 42 .: ; <32B +28 =29B28 23 42
; 289B28 5:3B2 E 2 < B +28 @:9B8 23 < B +28 55428
' ' ! * ' C ' 9 E:<4B 8 .2<254 53 ?92 89B
95 .45:3 <=2 ' J+: B2 3 58.B E+3 3 ' J52 4 4< *
3 <=8 3 <B: ; 3 ' 3:5 5: ; 42 32 ; <8 25 32 ; <8 . 34
28 =29B28 42 ; 2 ; : B2 23 4 ; ; :B3 + 34
D # ' 5 3 ' ' 9 32 428 =29B28 +2 .:9B8 B < 42
49 32 ; <8 ' 6 ' 82 4 3 428 4 E2B8 ; ; 253 8 49 @:9B
.: ; <348 42<9 8 ; 59 3 :9 42<9 8 ; 4 ' 5 4 52 '
8 A =29B28 ' $92++2 =29B2 283* + 252M ' 32++2 =29B2 '
@ 3B2 89@23 ' =29B28 52 <:9E: B 4 8<:82B 42 8:5
32 ; <8 ' >2 52 8938 <: 53 89@23 ' =29B2 ' S 429A
=29B28 42 59 3 429A =29B28 <B28 +2 .:9.=2B 49
8:+2 + ' S 429A =29B28 42 @:9B 4 29A =29B28 <B48 +2
+2E2B 49 8:+2 + ' $9 54 :5 < B+2 428 =29B28 .: ; K
<B 828 253B2 ; 59 3 23 ; 4 :5 @:932 +2Y ; :38 49
; 3 5 <:9B +28 8<2. 2B ' 8 283 +2E ' ' 3B: 8 =29B28
49 ; 3 5 ' ' 8 283 B23 B ' 49 G + ' 429S =29B28 49
; 3 5 ' ' $9 54 :5 < B+2 428 =29B28 .: ; <B 828 253B2
; 4 ' 23 ; 59 3 :5 @:932 42 <B28* ; 4 ' <:9B +28
@<B2 ; B28 =29B28 23 49 8: B <:9B +28 42B5 GB28 '
252M ' 952 =29B2 ' 429A =29B28 ' 3B: 8 =29B28 42
<B 8* ; 4 ' ' 283 82<3 =29B28 4 A =29B28 49 8: B '
' ! ; 2 42 E J5 ' ' 4 3 4:9M2 =29B28 49 8: B <:9B '
; 5 9 3 ' :98 5 BB E ; 28 . ' ?9 <BG8 4:9M2 =29B28
49 8: B 8SE ' 6Y : ' 2B ; 2 42 <B 3 ?92 ' S =29B2 42
; 4 ' ; 4 ' S 429A =29B28 42 B2+2E 2 ' 429A
=29B28 42 <B 8* ; 4 ' =29B2 283 E 5.22 82
4 3 ?9 54 + ' 283 3 3 B4 ' ' 5 ' +2E ' + ' 82 5.2 E9
=29B2 E 5. 2 ' #29B2 5492 =29B2 ' + ?92++2
3:93 +2 ; :542 283 :B4 5 B2 ; 253 B253B ' =2M 8: '
$92 E 258*39 B2 25 .2332 ; 8:5 ' 28 =29B28
54928^ - ' #29B2 5492 ; :58 29B E: 3 ! 25 ?9 +
283 988 ' <BG8 49 ; 3 5 ?92 49 8: B
D # # ' E B ' @ #29B2 5492 8 J5 2 988 ' =29B2 <29
.:5E25 G+2 ' B:5 ?92 ; 253 ' :98E252M ' 952 =2++2
=29B2 G2++2 =29B2 + 283 G2++2 =29B2 <:9B E25 B
+ ' G2++2 =29B2 <:9B BB E2B 82 4 ' ' ?92+?9 95 ?9 '
8 283 3 33254B2 23 BB E2 3B:< 3 B4 ' ' :98 8:58
.: ; ; 5.2B + ' 4 E 8 :5 428 =29B28 :9 ' ; 4 ' +:B8?92
+2 8:+2 + 283 ' 5:3B2 ; B 4 25 :9 ' ; 59 3 ?92 5:98
B2J B4:58 .: ; ; ' +2 .: ; ; 25.2 ; 253 49 @:9B 23 ?9 '
8 <<2++2 ; 3 5 ' 5 3 + 2 3:93 +2 . 4B 5 428 =:B
+:J28 283 4 E 8 ' 25 E 5J3 ' 9 3B2 < B3 28 42 8:B32
?92 B ; J9 ++2 52 3 ?9 95 829 3:9B 25 E 5J3*?9 3B2
329B28 23 :5 A ' 89<<:82 ?92 +2 @:9B .: ; ; 25.2 9

.:9.=2B 49 8:+2 + ' 28 GR+:5 258 8 253 .: ; *
; 25.2B +2 @:9B 9 +2E2B 49 8:+2 + 2 3+ ' 4 83 5.K
3 :5 428 =29B28 G GR+:5 ?928 428 =29B28 3 + ?928
23 42 " =29B28 B 5? 828 ' " ' 54 . 3 :5 42 =29B2
4:55 2 < B 95 . 4B 5 < B 952 =:B+:J2 < B 952
; :53B2 ' =:B+:J2 ' 8:552 429A =29B28 ' + 283 3B: 8
=29B28 E 5J3 ; 59328 ' $92++2 =29B2 283* + # 283 952
=29B2 + 283 429A =29B28 8:55 28 ' >2 R254 8 ; '
; :53B2 25 ; 2 4 8 53 E2.' 952 @: 2 5.B:R G+2 '
B .2 9 42+ @2 5 9B ' <+98 G28: 5 42 8 E: B
=29B2 ?9 + 283 ' ' ' E3 ' ' :<9
+ B2 ; 253 ' + 283 E259 89B +28 429A =29B28 ' E 5.2B
=29B2 B23 B42B =29B2 E 5.2B B23 B42B =:B
+:J2 ' ' B254B2 =29B2 B J+2B 8 ' ; :53B2 89B 952
=:B+. ' 2 ?9 ' E ' G 25 ' 5 4 3 4 58 /2 ; 2 8258V '
; 233B2 952 ; :53B2 ' ' =29B2 ' Q 52 =29B2 4 =:B+:J2
952 =29B2 ?92 332532 :9 952 B 8:5 ?92+.:5?92
5 < B +3B2 +:5J92 58 ' 4 32 <:9B ; B?92B ?9 :5
52 < B+2 < 8 < B 2A J B 3 :5 25 + ' 5: ; ; 53 58 '
>R ' 89+8 B283 ' 3B: 8 =29B28 4 =:B+:J2 ' 5 4 3 4 58
+2 ; ; 2 8258 ' 952 =29B2 42 32 ; <8 ' 29A ?9 ' ; 9
8253 952 .:5E2B8 3 :5 <254 53 429A =29B28 42
32 ; <8 8 58 ?9 + 8: 3 <:88 G+2 42 B2325 B 95 ; :3 42
.2 ?9 +8 :93 4 3 (= ' ' B ' + ' 2: ; <32
3:9328 +28 =29B28 + 8 2559 2 G2 9.:9< ' .2
42 =9 3 =29B28 82 4 3 93B2 : 8 47 :R 9 < B28
?9 :5 +2 ; 5J2 3 4 @2952B ' J ' 23 ; + B2
; 253 ' =2B.=2B ; 4 ' ' ?9 3:BM2 =29B28 E:R ' (
I ' 3 +8 E:53 2=2 B2=2B ; 4 ' : ' + 5 283 ?9 :5M2
=29B28 82 4 8 3 < B ++98 :5 ' = G 3942 42 4 52B
' ; 4 428 .: ; +29B8 ++ 53 42 G:552 =29B2 B2K
325 B ' 4 52B ' J528 4 95 . 4B 5 ?9 ' 82BE253
' 54 ?92B +28 =29B28 ' 28 =29B28 89B .2 . 4B 5
8:53 25 .= B28 B2 ; 58 ' 28 =29B28 42 .2 . 4B 5
8:53 2 + . 28 ' <23 32 J9 ++2 283 9B 32++2 =29B2 '
.2B82 428 =29B28 4 3 988 ' . 4B 5 4 .= M .
4B 5 8: 4B2 4:53 + 283 3 ; 253 :5 4 58 + ' :G+2
Q#:38 / ' ! : ; 253 42 + ' @:9B9 2 < B B <K
<:B3 ' + ' ; 5 B2 4:53 :5 +28 2 ; <+: 2 ' J+2B ; *
5 J2B 828 =29B28 ' 882B JB G+2 ; 253 828 =29B28 '
E: B 828 =29B28 4 3942 42 <B: ; 25 42 ' +28 4 K
E2B3 882 ; 2538 5 ' +28 3 J928 428 E:R J28 52
8 253 <2B4B2 ' ! B 2* = B 82 .28 =29B28 < B3 .9
+ B28 ?9 2+2 4283 5 3 ' + ' ; 4 3 3 :5 23 ' + ' <B 2B2
' A 9 A ' :9328 828 =29B28 8:53 ; B?9 28
.= .952 42 828 :..9< 3 :58 ' 8:5 32 ; <8 ; B?9 '
' #29B28 42 +: 8 B =29B28 + GB28 =29B28 <2B4928 ; :K
; 253 5:..9< 8 4 952 <2B8:552 :B3 :..9< < 4 :B4
5 B2 ' >2 + B ' .23 :9EB J2 ' ; 28 =29B28 42 +: 8 B
; 28 =29B28 <2B4928 ' 28 =29B28 ?9 + E 3 + GB28
=B2=3 B2 ; <+ 28 42 G:5528 +2.39B28 ' 9 '
' B2 ?92+?92 .= :82 ' 828 =29B28 4 B G 28 4 B:
G2B ?92+?928 ; : ; 253 ' 428 :..9< 3 :58 = G 392++28
23 <B288<5328 <:9B B2 ?92+?92 .= :82 ' ! : ; 253 :=
952 .= :82 82 3 = G 392++2 ; 253 ' + 283 42 82
.:9.=2B ' 9A =29B28 428 B2< 8 ' 28 =29B28 4 9
4 25.2 4 95 ; 5 83B2 ' E 5.2B =29 ; ' 49 4 52B '
; + B2 ; 253 ' ' 52 3 B 25 ?9 ' 828 =29B28 +
52 82 42B 5J2 < 8 42 :5 3B 5 42 E 2 :B4 5 B2 '
E E 3 42 B J ; 2 23 ; 5J2 3 ' 828 =29B28
' ' ' " ' ' C 2B ; 2 42 + 39BJ 2 ' #29B28 . 5:
5 +28 4 E2B828 < B3 28 49 GB E B2 .: ; ; 2 ; *
3 528 E <B28 23. ' ?9 :5 B . 32 9A 4 E2B828 =29B28 '
28 <23 328 =29B28 <B ; 2 3 2B.2 82A32 23 5:52
' + EB2 ' 4 =29B28 :9 8 ; <+2 ; 253 =29B28 + EB2 :3
.28 <B B28 8:53 .:9325928 ' ! ; 2 + ' 49.=2882 42
:9BJ:J52 E:98 283 G 25 :G+ J 2 42 <2582B ' 2++2
23 823 ' 3 E 2 4 E: B ' :8 =29B28 9 ' = '
:9 * ' ' . ' (' :.3 A ' Q :<9+ B2
; 253 ' 52 < B8 4 =29B28 95 + EB2 4 =29B28 '
' F6 ++: ; 253 <B . ' +A ' ' 9B ' 95 B2542M*E:98
<:9B 952 B2 ' :952B 8:5 =29B2 ' =: 8 B 952
=29B2 ' :98 8: ; ; 28 .J 5E2598 42 5? =29B28 49
8: B ' =29B2 49 B2542M*R:98 ' 2 +2542 ; 5 '
=29B2 ; B?9 2> + 4+93 B E2 ++2B 4 5 <B: :54
8: ; ; 2 + .23 93B2 +2A 54B2 ' = , ' ' ' , S
1 ' 3 ' 5:3B2 =29B2 + 258 . + GB2B .2 JB 54
@:9B ' ? & ! ' B2542B2 =29B2 A2B =29B2
4 95 B2542M*E:98 ' ' 5 ' ; ' B254 =29B2 E2. ' 2++2
9 ; 3 5 ' % ' . ' 3 :5 E:98 ; 542B '
?9 54 =29B2 82B ' <B 82 ' ' ' ' E '
' ! :5 =29B2 8 J5 2 29B2 ?9 :5 ; ' A 2 5
<9G+ . ' ; :5 =29B2 :5 ; 2 4:552 94 25.2
D# ' ' ' ! :5 =29B2 8 J5 2 4 93 28 : 8 =29B2
?9 ' ; 2 .:5E 253 ' 8 2589 E 3 42 + ' ?92 @2 52 +9 '
8 8 <+98 42 E 8 38 ' ; :5 =29B2 ; +8 ' + ' 8 2552
" ' ' ' ' 5 32 ; <8 95 ; : ; 253
952 <:?92 ?92+.:5?92 ' #29B2 E:B G+2 ' #29B2
<B:< .2 ' +2 5 33254 <+98 ?92+ =29B2 4 ..:9.=2B '
28 .= JB 58 E 5. B253 =29B2 42 8 ' ; :B3 ' S .2332
=29B2 H<254 53+2 G2 ; 2 ; 253 @ E 8 + ' 3 32 25G 8
! ' = ' ' :R2M .2 ?9 25 .28 + 2 A + E25 3 42
; 542B + 283 =2 B8 3B ' 3 B4 42 =43 ' :52 E 8 320

4: # 93 249>_53 E ' 3 2+ 29. 283+ 2:9B
4 ' 4:52 <:9B ?92+?92 32 ; <8 + A2 8:5 8 @:9B 2
3B:9E 53 9 .:9.=2B 9 +2E2B ' .28 =29B28 $92
+6:5 8 +3 3B2 +28 ; 2 ++29B28 ' ' E5 V '
S ' ?92+?92 =29B2 23 42 ?92+?92 . 3 ' ?92 E 255253
+28 2552 ; 8 :88 ' + ! 7 ' ' D ! 7# ! - ' < - - > & 7, '
283 E2592 $9 + 93 ?92 ; :5 82.B23 .+ 32 ' E:3B2
E92 ' C &# ' 9 + ' + 93 +28 82: :9B B ; 8 +28
=29B28 8:53 .=2B28 " ' < 6 ' ' ' + 82 4 3 4 58
+2 + 5J J2 +2E 4 95 ; : ; 253 A ' < B 29 ' B 54
29 E: 4 ' 3:5 =29B2 :5 3 ; 52 3 ' <B: 2
? & ' ' ' S =29B2 := @2 E:98 < B+2 25 .2 ; :K
; 253 ; ; 2 ' J ' 23 ; + B2 ; 253 ' 283 95 =: ; K
; 2 95 ; ' 42 3:9328 +28 =29B28 82 4 3 4 952 <2BK
8:552 ?9 :5 283 3:9@:9B8 G 25 82 42 E: B 23 988 '
4 952 <2B8:552 89B + ' G:552 E:+:53 ' 42 + ?92++2 :5
<29 3:9@:9B8 .: ; <32B ' 5 4 8 3 4 95 .:9B3 8 5 4 9
J9832 ?92 . 3 3 95 =: ; ; 2 42 3:9328 ' =29B28 .23
+:J2 << B325 3 + J 3 ; 2 ; 253 ' ; :5 .G2B ; +
3 3 <B:<B2 <: B +28 G:5528 23 <:9B +28 ; 9E 828
' ' ! 75# ' ' , ! 7# ' 23 ; ' 42 3:9328
+28 =29B28 ' / # ' 1& # ' # : # =29B2 25
=29B2 4 =29B2 ' 93B2 4 952 =29B2 ' 93B2 4 95
; : ; 253 ' 93B2 ' 2 ?92 E:98 R ' E2M E9 4 ; G+2
4 4 ; B G+2 23 42 .= B ; 53 ' 3:9@:9B8 9J ; 253
4 =29B2 25 ' =29B2 23 :5 42. :9EB2 3:98 +28 @:9B8 25
2++2 42 5:9E2 9A 3B 8:B8 42 G2 932 42 J 5 B 83 '
23 4 28<B 3 ' + ' NC ' 28< B 5.2 49 <++ J2
; 9+3 <+ 2 4 =2 B2 ' 93B2 +2 5: ; GB2 428 B E:+3 '
9 0 " ! # C 4 58 ' 952 =29B2
' 93B2 5 283 < 8 B 5? 8 4 3 . ' ' '
< F" 4 58 ' 25 4 <+ 82 ' 9J2+ 8 + '
+:.93 :5 283 .:BB2.32 23 98 J2 ' .:582BE 2 >2
E 8 =29B2 ?92 ' :R ' 9 ' =29B2 25 =29B2
3:9328 +28 =2 B28 ' B254B2 952 <:3 :5 4 =29B2 25
=29B2 ' ' J ' =29B2 49 G2BJ2B =29B2 <B:< .2 9S
; 538 +:.93 :5 3 B 2 42 .2 ?92 4 58 +2 J eB2
< 83:B + G2BJ2B 82 <B254 <:9B ; 53 ' B:9E2B
=29B2 49 G2BJ2B 3B:9E2B :.. 8 :5 E:B G+2 <:9B
:G325 B 4 952 G2++2 952 E 9B < B3 :9+ 2B2 ' #9 ; 29B
B <:552 =2M + <:9<:552 2J+ 8 ' +:B8 25 3 < 5: 8
@! - ' .2 + ; 2 4 3 25 8:5 < 3: 8 ' 2BJ2B G2BJ2B 3:5
=29B2 8:552 ' M ' 0 ! ' ' E ' ' 42B
5 B? =29B2 =29B2 42 ; B2 =29B2 89<B ; 2 5
83 53 42 + ' ; :B3 ' ! :5 :+R29 .32 3:9.=2 ' 8:5 =29B2
42B5 2B2 ' 0 ! ' E ' 5 <G +:8:<=2 E:98 4 B '
25 E 5 ?92 E:98 42E2M 3B2 B 88 8 8 4 55228 23 42
@:9B8 ' + ' 42 ; B2 =29B2 5 25 82B ' < 8 ; : 58 5K
89<<:B3 G+2 23 = G 3942 42 E EB8 52 2B ' ?9 25
..B2+3B2 +2 4 8 B :88 ' , # ' 293* 3B2 5:98
3:9.=:58 ' 5:3B2 =29B2 42B5 2B2 ' ? & ' E 4 '
! 8 E:98 ' = .B:R2M* ; : ' 5 4 ' E:3B2 =29B2
283 <B:2G 52 : ; ; 2 95 <: 48 ; <:B395 4 <:82M
E 3B2 = 52 . ') 9 ' 0 # ' E ' + ' #29B2 2 ; K
<+:R2 G8:+9 5253 2 ' 2. ' 95* 4@2.3 ' <:88288 8 K
J5 2 +2 32 ; <8 ' 8 ; : ; 25 ' : ' ?92+?92 .=:82 4: 3
BB E2B ?92=@9 9 + 5 E:9+ 3+ ' ; B 2B 42<9 8*:5J
32 ; <8 ; 8 8:5 =29B2 = 3 3 < 8 E2592 ' 2B8:552
52 ; 3+ ' ; 5 89B +9 ' B.2 ?92 8:5 =29B2 5 3 3
< 8 25.:B2 E2592 ' ' DC # ' 5 ' @ ' >2:5 E9 ! '
= ' ' 82 J529B 8 ' :3B2 =29B2 283 952 ; 8 ; B?9 2
? 7 ' 0& " # ' 0 " ' :5 =29B2 5 3 3 < 8 25.:B2 E2K
592 > ' ' # ' " 3U253 8< ' 25 283 3 @2 E: 8
G 25 ?92 ; :5 = B2 283 E2592 " ' = +
; B E N ' :5 =29B2 283 E2592 +2 ; : ; 253 :=
+ E ' ; :9B B 28 BB E ' ! ' ++8 + 293 . 42B ' E:3B2
=29B2 283 BB E 2 ' <= J ' E " ' ; 289B2 283
.: ; G+ 2 23 E43B7 =29B2 283 E2592 9 ' # & ' E
N ' F 2B ; ' 42 3:R3=:+:J+2 ' 5 3 8 9 5: ; GB '
42 3B: 8 95: ; 2 . ' 23 B 5 ' ' ?9 :5 B2< *
8293: 3 :B4 ; B23:253 ..: ; < J5 28 42 + ' >983 .2
23 8:9325 43 428 .+2<8R4B28 :9 =:Bd:J28 4 2 9 28
#29B28 3 253 T.= BJ228 4 :9EB B 23 42 2B ; 2B
+G8 <:B328 49 . 2+ ' 5 ; 23 952* ; @98.9+2 =
#2=B2 25 .2 82338 ' F :552 =29B2 ; : ; 253
.:33E25 G+2 <:9B B2 ?92+?92 .=:82 ' : 4 ' +
G:552 =29B2 <:=B .92 ++ B +28 B 828 ' ; + '
B2 ; 253 ' BB E2B + ' G:552 =29B2 BB E2B ' <5 28
' S + ' G:552 =29B2 :B ; 9+2 42 8:9= 3 =29B2982*
+ * /% ' 0. " 2 ! / 6* / (! 22 (! - (, / ! -& 4 0-% 0 ! 2- " &
, ! * 40 " . * (8 " ! : 9 " + " ! ' " * ! (# - ' " < , ! ! " / + * ! @
' 0/ %9 " @ + " ! ' (' &0 ; * / / " 6 " ! ' " 0 ' A / 4
* -&- . * % ' 4 " %-% $ ' ; ' ' , ! - 0 ' ' - . ' ' & 20 ' # - / 0& # "
" %< + " $0-% # - ' " ?9 + " (% 0 ' ' -. 5 0- ' - . " < # * / " % * ! (
' &0 ; * / / " 6 " ' , ' l ' %((' Q ! " ; 2 " (% . ' 0- , ! "
?0 ' - " / " ' 7& " @ (* / 0 + * ! " , ! " 0# " 2 " & . # # ! '
% " ' ! " & ' 0&& " < ' $# &" (' 0&& " < ' &0 ; * / / " 6 " ! ' "
2 " %% " + " -/2* + 40 ' 0 ; & " 6 (" + ' 1 ! !)
" ' @ ' , # / ' Q (" " : % " / (- * / ! S ' &0 ; * / / "
6 " ! ' " &*2 ! % - * / , ! - " :4 ' - + " 044 ' * ; 0% - * / ' (* -% ' 9 8
2* / (" / (' 0 [; * / %% " % * ! ' (' 2* / % " / % " < (1 ! ' (" 4 " ! %
6* / / " ! " ' &0 # - 7 / - % ' # " &0 2* / ' * / / " ' B
- (2 ' 7# ' ! 7# ' $ - 1 - & (H " (46 * (* 46 " ((" (" / % " / %

<+2 98 42 8253 ; 2538 <:9B & ; 2B H 29I 23 & 4:B2B
23 ?9& +8 R 3B:9E:53 +29B @: 2 <B 5. < +20 ?9& +8 8&28*
3 ; 253 X58 '+ 'G:552 & 7 ' 'H# - ' ')
'@ '42B & ! ' 'c4' 7 ' ' +' 283
E:3B2 4 290 4:B2M*+2 3:93 82 +0 '+ 'G:552 G29B20
H4 ' 1 # ' -(!- ' $9 54 .28 42E: B8 82B:53
B2 ; <+ 80 _ 328*E:98*250 + 'G:552G29B20 42 89B.B: 30
; ' 1 # 'R # ' (7A 'LL B:5 ?92 ; 253' ' ; 2 ; 2K
5 .20 4 328*E:98 '+ 'G:552 G29B2' ' .2+ B5&283 J +'
/ I' + ' G:552 G29B2 ?92 ' 8 J5 2 @2 .:58258
?92 0' I'+ 'G:552 G29B2 ?92 5:3B2 M ! 2 52 8: + < 8
882M = B: ?92 <:9B .:5?9 B B 42 5:9E2++28 5 3 :58
23 @:932B 425:9E2++28 32BB28 I' 8:5 =2B 3 J20 5:98
42E:58 49 ; : 58 .9+3 E2B .2++2 ?92 5:8 <B 4 .28*
829B8 +9' :53 .?9 820 ' 1 ! - # 'XA ' (- # '
(-" 'LL 2B ; 2 42 ; B 52' I' + ' e 5 2' G29B20
B4<:582 ?9 '82 3 9' <:B32*E: M0 4&95 GI3 ; 253 I'
95 93B20 ' :9B 55:5.2B?9&95 :B4B2 'c3I'2532549'
RL 2 G:552 G29B20 9 ; 3 5' 252M 42 G:552
G29B2' '5:98 94B ' < B3 B 42 ; 2 ++29B2 G29B2
?9&G 2B' '283 E259 42 3B:< G:552 G29B2' LL ' 283
25.:B2 42 3B:< G:552 G29B20 +2 @:9B 283 <2 ' E 52I'
' 283 G:552 G29B20 82 4+3 ?92+?92 : 8 <:9B + 283
42 G:552 G29B2 .:BB2.32 ; 2530 <9 8?92 &!- - '& 7#'
8 J5 20 < B ; 23 <G:B20 ; 3 5' G' <:9B .2+ '3:9*
@:9B8 + 283 882M G:552 G29B20 6 ' ' E0 '
B 2A3258 :5' 2 G:552 G29B20 3N30 < B :<<:8 K
3 :5 I' 3 B4' 28 JB 528 5&:53 < 8 I3I' 82 ; I28 4& 882M
G:552 G29B2' :98 <:9E2M .2<254 53 B2 ; 95 B
.28 <+ .280 8<:82B 42 G:552 G29B2 95 82.:9B8 42
: ; 580 ' ' ! '50 '>2 52 ; 5?92B ' < 8
4& BB E2B 42 G:552 G29B20 ' + '1!#-' 0' '
+28 .:5@9B 3 H828 25 538I ' 42 & 2B3 B 42 G:552
G29B20 ?9 54 +8 E2BB 253 8 ' ; I ; : B2 E . ++2B :9
8:5 @9J2 ; 253 8& G+B" 5' ' , A # LL I' 952
I<<?92 <29 E 52I2' :98 I328 5I2 E2.' 3 53 42
?9 + 328 <:9B . : ; ; 542B0 + E:98 ; <:B32 2A3BI*
; 2 ; 253 42 E:98 . .:939 ; 2B 42 G:552 G29B2' 42
G B ++5@983 220 E: ' + ' b' '@2952882 <<B2*
5 3 42 G:552 G29B2 + '8. 25.2 0 'K ' +30 '
N' G 25=29B29A ; +32 : 8 &25 53 ?92 +2 82 J529B
; ; 20 $9' 42 G:552 G29B2 253254 8 'E: A+)
3= +' 90 'Q' 5 253254 8:9E253 4 B2' + 283 E259
3B:< 42 G:552 G29B2' &283 952 932 2:53B2 +2 G:5
98 J2P + 93 4 B2' 42 3B:< G:552 G29B2' LL I' G:552
G29B20 343' 5J2M 95 ; :B.2 9 23 .:92G2M*E:98 I'
0G:552 G29B20 'H# ' 'LL 2332 +: .93 :5
283 .:54 ; 5I2 < B +28 JB ; ; B 258' ?9 3 53 2++2
283 .:BB2.38 P 2++2 'I3I' 2 ; <+:RI2 < B 42 G:58 9K
329B8P ; 8 + 283 EB ' 4& @:932B ?92 &++8 J2 & G 5*
4:552' LL I'G:552 G29B20 8&283 4 3 88' <:9B =29B29*
82 ; 253' $9& I' 4U:552 G29B2 4I 3 4&?5 ; 8?92 23
4&952 I<I20 >& '+29B .BI49 3I' 8:98 :8G G 38 3B: ; *
<I2 " '1 '3 E* 2 5 9E I 8B G29B20 G29B20
4I E:. G+2' &283 + ' ; 9E 82 G29B2 <:9B +9' < BK
+:B' 29A ?9 '29B253 G28: 5 42 8:5 82.:9B8 3B:9 I*
B253* +8 @ ; 8 253B2 29A 23 +9 '428 G BB IB28 ; <I*
5I3B G+2 ^ ++93* + 2889R2B* '8 ' <:B32 42 ; 9E 828
G29B28 <:9B 33254B2 095 42 828 ; : ; 2538 . : ; ; :K
428^ % ! / - ! - '** 28 G29B28 5I J +280 428
G29B28 : I' 82 ; 5 2838 42 &5I J + 3I' 4&=9 ; 29B' : 53
42 B2 98 <:9B ; : 0 <: 53 4&G29B28 5I J +280
]0 ('#! ' 0"' LL I' + ' ; +2 G29B2 0 :B ; 9+ '4 ; <BI*
. 3 :5' *3&25 I' + ' ; +2 G29B2 0 6 '* ' " " ' 3
G 25 I' + ' ; +2 G29B2 283* + E259 4& 8< J52 2 2 9B*
B 2B0 ?92 + ' :94B2 :9 ' + ' JBI+2 . . : ; < J52 '
@ ' 0 " ' " ' I' &G29B2 ?920 & ' "5' 9 ; :K
; 253 :" ' I' &G29B2 ? 2 @2 < B+20 95 @2952 @ /)
3 5 0 ! @ '3' ! '7' ' &=29B2 ?9& + 2830 4 58
+2 ; : ; 253 .392+' I' &G29B2 :9& + 2830 :5' 4I+ GIB2
89B+2 8:B3 42 + ' 5.20 42 B 8< J520 89B +28:B3
423:932 9 :<20 6 6 6' + '4 C - ' "@)H):*
- 'd' 0 < ' " _ 0 4 58 7 ' + ; &283 44 <+98 :6
E 5J3*. 5? ; ++8 B 5.80 I+&G29B2 ?9& + 2830 0
+ ' " ! ! - ' " ' ; !? 7 @ '8. '7' I' B=29 2 ?9& +
2830 ?9&R *3* + ?9 '<9 882 E:98 2I2982B ' '1 N
'0#!" ' I' &G29B2 ?9& + 2830 8 J5 2 988 '4 58
+2 32 ; <8 + 5:98 8: ; ; 28 2+ '5&283 <+98 42 ; :42
I' &=29B2 ?9& + 283' LL I' &G29B2 ?9& + 283 ?920 9@: B*
4&=9 '?92' I' &G29B2 ?9& + 283 ?92 +28 G 2<8I 5.28
2A J253 42 E:98 428 ; :29B8 <+98 8IB 29828P 0
B ; 20 @ # 'LL %6 I' .2332 G29B20 ; 5325 53'
: 8*39' . : ; ; 2 39 8 3 + ' ; I ; 2 .G:82 4:53 39 32
; :?9 8 I' .2332 G29B2^ ' J ' 1 ' " ' ' @2
E:98 I2B 8I' .2332 G29B20 .2 5&283 @9 8 3 53 < B. . +532
?92 < B 952 EIB 3 G+2 2.3 :5 23 952 5. + 5 3 :5
5 39B2++2 ?92 @& ' I' E:98 :G2 B0 9 '= 'MA' >2
. : ; <B2548 . ' ' I' .2332 G29B20 '@!7#/ ' '8'
>2 <9 8 ; I ; 20 25 82.B230 +9' < B+2B I' 2332 G29B20
! $ '# ' 0"'LL &I' .2332 G29B20 "9' 32 ; <8 <B2K
8253 '3 5' ; I ; 2 8: 55& 'J B42 4& 5 ; 2 '+28 5R ; <=28
4& I' .2332 G29B20 '4 58 6 'LL I' .2332
G29B2 ?92 0 9@:9 4&G34 '?92 ' I .2332 G29B2

?9&2++2 283 4 ; 249 < + 80 8 E "F" 'LL I' .2332 G29 2*
I' ?920 25 .2 ; : ; 253 ' ++2 H952 G2++2 <B 5.2882I'
BB E 25 95 G: 8 :I' + R' E + <+98 42 .253 58 ?92
+2 @:9B' 5&I3 3 253BI' ?9& I' .2332 G29B2*+ I' ?9& + R' 253B '
E2.' 2++20 ' = ' " 'LL N' 58 .2332 G29B20
3:93 42 89 32' >2 E:98 2B '3:9.=2B BJ253 4 58 .2332
G29B20 ' O / 'E 5' Q :.93 :5 <29 98 322 <BI*
82532 ; 253 / LL C] 28 .2332 G29B20 988 343' 9 ; 2
B23 258 25 E 50 23 4I8 .2332 ; I ; 2 G29B2' 93 ?92
@2 + 'E: 2 :9 49 ; : 58 ?92 @2 ; 29B20 'D ; 'E0 F'
' 5 4 3 4 58 +2 ; I ; 2 8258' I8 I' .2332 G29B20 988 K
343' $9& + 52 82 <BI82532 <+98 42E 53 ; : 0 @2' +2 .= 882
4I8 I' .2332 G29B20 ' -s ' LL F] :93 I' .2332
G29B20 988 3430 <BI82532 ; 253' ++2M*E:98*25 4:520
; :58 29B0 3:93 I' .2332 G29B20 ; ' ' "N' 2 ; & *
E2M*E:F8 < 8 4 3 3:93 I' .2332 G29B20 ?92 E:98 E:9+2M
42 &:B4B204 58+ ' ; 43G:42 <:9B 583B9 B2^ '3 'AA 0
<&FN 7 I' 3:932=29B20 .= ?92 583 530 .:53 592+*
+2 ; 253' H 58 + '2G ; GB2 G+292 42 &G432+ 42 ; *
G:9 ++23I' @2' 82B ' 82BE' 23 3B 34 ; J5 ?92 ; 253
=9B3 @:9B8 49B 53 < B 429A 42 ; : 82++28 ?9' :53 432
. 982 42 .2 ; +=29B H ; :5 G2 ; 2 ; 253IP I' 95 428
.: 58 42 + '2G ; GB2 :5 2B ' I' 3:932 G29B2 428 .:5K
39B280 ' = '7' 2 B: 4 23 +28 52 J28 428 ; :5*
3 J528 4& +8 .2 +28 3B 58 88253 HE:8 ; 8 42 B 8I0
23 +28 :53 3B2 ; G+2B 3:98 +28 @:9B8 4 58 +28 <+98
JB 5428 882 ; G+4280 23 + ' .B 532 428 2 ; G42=28 428
B E 328 +29B 4:552 & + B ; 2 I' 3:932 G29B2 4 58
B 80 ' = 'NC' 2 B2832 4:53 +2 5: ; GB2 9J*
; 253 3 I' 3:932 G29B2 0 ' E0 ' + BB E2
I' 3:932 G29B20 4 58 +28 4 8.:9B8 ; + 2B8 23 4 58
+28 4 8.:9B8 42 8. 25.20 428 : . . 8 :58 ' '> S
" ' 82.3' " '> ; 2 I' E:98 253B2325 BI' 3:932
G29B20 8 E' "' $92 E:98 ; 2 <2B ; 233 2M 42 E:98
E: B I' 3:932 G29B20 ' ' E0 ' 29 E293*
' ?9& I' 3:932 G29B2 :5 <B 20 :5 +2 .:532 ; <+2^
& '50 C' LL] :93 I' &G29B20 * ' /'
58 95 ; : ; 2530 + 5&R' ?9&95 ; : ; 253' >2
89 8 I' E:98 3:93 I' &G29B2' $92 4 8 2M*E:98 3:93
I +&=29B2^ :53 52 2<9 8 ? 54^ - A9<IB2'
:93 I' &=29B20 'A * 0 N'>0 988 3430 3:93
42 89 320 89B*+2*.G ; < Q2 ; <+: '?9 'E 2 ++ 3/' + 82
B2882BB '3:93 I' &G29B2 9 <+98 ; ' + 29 42 8 '42*
; 29B20 # 6 '50 'H &#R ; 25I' B2<BI82532 .? <:B*
3B 'H42 + ' B2 52I' 9A R29A 42 + ' 8.:B42 23 42
& 5E 20 ?9 '3B G9.=253 988 343 9A 25 2B80 23 25*
89 32 + +2 <BI82532 9A .= 528 ?9 '3 255253 + ' 42
<B 8:5= IB20 +28?92++ 8 3: ; G253 23 82 GB 8253 3:93
I' &=29B20 ' O ' & 'O '8. ' "' >2 52 4 8
< 8 ?92 3:93 I' &=29B2 52 .:54 3 :5 ; 2 ++29B2
= 5J2 25 428 5:.28.28 3B 58<:B380 '
3 G' ; 4 ; 20 B2<B 3 8:5 I<:9A3:93 I' &=29E20
' E:3B2 28<B 3 283 8' = BJ529A 0 ' 1 'E50 0
>2 4 8 ?92 @2 E29A E: B 42 & BJ253 3:93 '' &=29B20
0 'F' >2 E:98 ' . : ; ; 54I' 42 < B3 B 3:93 I'
&=29B20 ' ; 0 " '>& <<B:9E2 .2. :582 +0 8& I*
.B '+2 + .25 .2P .&283 +2 .2+0 :5M +2M0 ?9 'E 253 42
32 & 58< B2B0 23 @2' +2 E29A 89 EB2 3:93 &G29B20
> ' 2 0 N' LL ' 9B &G29B20 I' D 583 53
; I ; 2' :4B J920 8*39' 49 .:29B^ - ' :93 93B2 ?92
; :5 <IB2 & I<B:9E2B 3 89B &=29B20 ' 0 F'
:9328 +28 4 J5 3I8 ?92 39 ; & 8 42: 54I28 >2 32 +28
'89B &=29B2 23 8 58 <2 52 . .:B4I280 '
0 " ' 5' .:BG2 90 3I ; : 5 42 & B2 ' 5 E:9+93
89B &=29B2 93 53 B20 ' / '50 "N' >9J28
5@983280 52 328< 8 428 +: 8 89B &G29B20 '4 58
' + 'E:98 4I.+ B2M 828 ; :B32+8 2552 ; 8'
' .23 25 _53 89B &=29B2 25 ; 28 ; 58 5&283 B2 5 80
& * '$ ' ! ' 3 +28 E2B8 ?9 ' +2 H#4B:42I' 4I*
E:B253' 89B &=29B20 5:98 + 88253 . : ; <B254B2 ?92*
93+&2A.I8 42 8:5 ; <02 E 5 3I0 <9 8?9&2++2 ; IB 32
40I3B2<95 2 4&95 8 B29A 89<<+ .20 '
0 " ' " LL 93B2 :G :5 4 8 3 988 '3:9389B
0=29B2' '] ; + IB2 ; 253' :9B &=29B20 *'
/ :9B +2 ; : ; 253' >2 3B:9E2 ?92 <:9B &=29B '
5&283 < 8 I' <B:<:8 2 .2532B : . : ; 2 ?9: ' 2 <.B4 8
+2 B2< :80 '# ' 0 'LL ' I' &=29B20 <B2*
82532 ; 2530 8 58 3 B42B' I' &=29B2 ; I ; 2 25. :B 5:98
E:58 29 ?92B2++2 9B &=R ; 25 4&# <<:+R32 :4 @2 +2
E 8 B2G2++20 ' < ' 0 7 3 @2 8:9G 32 :B30 <:9B
52 B 25 B2:9+2B0 $9& I' &G29B2 42 ; ' < B3 39 & ++28
<<2+2B0 5] - * ' 0 3: >+ I' G29B2 ?920 9 ; :K
; 253 :4' ' &=29B2 ?92 .G .95 283 B253BI' .=2M
8: ' ' "] 2 JB 542 G29B20 3I3 2332 <23 32 .:9B
BB E '4 '3B28*JB 54 ' G29B20 +2 "F IEB 2B0
"F 0 C' ' 2332 +: .93 :5 5&283 <+98 98 3I2' LL B:*
E2BG28' 5 = E2B0 +28 @:9B8 5& :53 < :53 4&=29B280
2&283*I*4 B20 +8 8253 8' .:9B380 ?9& :5 5& ' < 8 +2
32 ; <8 42 B2 828 B28' LL &283 <29 42 82 +2EIB
3 50 ; 8 .&283 3:93 42 < B3 B I' &G29B2' 3L# 283
. : ; ; 2 + ' ; 9+2 49 < <20 ?9 52 G: 3 23 ; 5J2
?9& I' 828 G29B28' LL I' + 'G:552 G29B2 5:98 ' <B 8 + '
<+9 20 2&283*I*4 B2 5:98 E:58 "!&" 32 ; <8 #" 5:98

; 233B2 I' .:9E2B3P 23 J' 42 5:98 J B 53 B 42 ; 9A
?9 '5:98 ; 25 ? 253' LQ '8 +3 ; 29A 828 G29B28 ?92
828 ; 3 5280 + 283 = G+2 X 8 8 B +28 ; : ; 2538 *
E:B G+28
- ' # 'O '8' H 28 <I.=I8I $92 @2 ' 3 4I8
9B2 ?92 5I8 H@2I 90 I' 42 :> SS 'L A] 8'
&:B28 25 +3B28 H +I' E ' 8 ' .:9+<2 G 33 53' ' '
<' 7 ' B2 283 G 25 B 8:5 23 G29B2 $92 H@2+ ; @
4: 2 B23:9B52B0 :9.30 E' 3 4 328 +9' H?92] 42
; +2 G:B2 H@2I' 9' 52M0 G' A E' $9 3:BM2 B: 8 :3 X
:B2 42 8:9<2B' # 7 'A ' 5M 2BB ' 952 + 292 ?9& +
E:+8 83 B2832BP #:B8 E2 2 8: 39B5 ' <9B 828 =9B28
.= 532B0 9 ' ' " "C' LLA ; 8' 3 25 42 ; 5
42 = 932 G29B2 E 5B253 I' 952 G:552 E +2 ?92 25
<2+2 + 20 9 'A. A' &29B2 8: 3 G252: 32 ?9'
@2 :5?92 E:98 E 0 ' 1' ' 5&283 8' JB 58 ; A
H ; +I' ?9 '5& +3 H5& 42I0 2 G 25 ?9' 52 59 82 < B
.9B280 < ' "N N" ' 4I8 ; 2 <+:3 I' 42 ; :B2B I' + '
:53 520 23 B2 ; B2B 28 429A .B 83 98 ?9' ; '
; :583B: 253 ! + .=:828 ?9' +2. ' 283: 253P !G8 42
:B3 G:B2 ; & ' ; BIP 8' 3 53 25 ' <9 8 8:98< BI0
' < ' "N 8' 5E 2 52 52 59+2 G:B2 & 9.95
G+ 8 ; 2 8 J253 ; 23B2 8:B20 G' NC' 3 25 32+2 ; 5 2B2
82 . : ; G 3 B253 G 25 :B2 4&952 + 92 4&95 =: ; 2 X
< I0 3 53 ?9& + <+:3 9 B: '?92 <28 9 2320 ' 1
'S 6 8' B 3:93 ?9 5?92 G B 3 H B 942I' 3 52
H ; 882I' 5 E 5J3 580 5 253 83 :B3952 5 952
829+2 G29B2 42 @:9B0 ' 4 58 A '3' 50
< ' ' 2 +954 0 I' G29B2 42 B2 ; :53I2 H <BI8 ; 4 I0 '
5+8T ' G:B: ' 5E B:5 G29B2 42 253B2 B :32 J:432BI'
23 . :29EB2 290 ' G' 2+M 428. :5 3 9 8: B 8:5 4K
E2B82 < B3 2 $9& 9 @:9B 4&9 ' <2B42B '+28 ; 2 ; GB28 23
+ 'E 2* 52 G29B2 28342 J J5 2B0 23 & 93B252 283
; 20 2 , * ' " "NC' 'AE '8' '283 G29B2 42 3 B20 23
8' 283 G29B2 4N < B+2B0 % ' ' '4 ' 52 G29B2
<2B4: 253 +28 9580 93B2 G29B2 <2B4: 253 +28 93B28
H3 53:83 +28 9580 3 5343 +28 93B28I0 ' 0 0 8 8'
&2542 ; 5 +8 8&25 E 5B253 +:J2B 42 JB 54 G29B2
42 +2A 952 JB 54 .:9B3 4& GG R20 ' 0 0 " " ' 2
.=2E + 2B B2< :54 3' I' + 'G:552 G29B2P + 8&:B4:55 '
3 53:83 23 9 <B2830 ' ' ' ; , ' 3 .29+A ?9 ':53
3:93 +2 32 ; <8 + G:9BI' H3B E +II 3 ?9' :53 8258 23
4 + J25.2 G:5520 :530 8:9 B 329A 23 42 49B2 G29B2
5I0 B +8 52 8253 B2 ; 2B 8 HBI2: ; <258I8I 42 <23*0
8:5520 ' ' (' 0 ' I' 3 8' +2 B:R
2983 25E:RI' 4&=29B2 HI' 32 ; <8I0 + 2983 <B 8 +2 .= 8*
32 90 ! I0 E 90 ' :9328 : 8 +8 BB E2B253 25.:B28
I' G29B20 ' 0 N' $92 @2 52 5 : ; ; 2B R < 8 <:9B
.2832 G29B2 <:9B GB 2 E23I0 ' ' ' I' &29B2 ?9& +
H :98 S I' E 53 I' + ' .:9B:5520 ' ' ' & 5 ; +
?9 3B2 .258 82<3 532 <B 53 E:9+: B 9 B:R 42 82
B2E2 .G2B 49 492 42 :9BJ:5J52 23 +9R 82 ; G+ '
?9& + 283: 3 G29B20 ' ' , ' I8 &=29B2 . : ; ; 25? '
+2 B:R I' <B 3 .?92B +28 J:9E2 ; 2 ; 258 42 540 '
'C' F B20 4 83 R:552+0 3 53 R' R .:5?928320 ?92
@ ; 8 382B ' G29B2 ?92 @2 5&25 8:R2 <+98 <B29A 23
<+98 = B4R0 * '3' 0] ' +2 ; 2 ; 2 52
@98?928 C' + 'B E 2B20 23 <9 8 @2 52 J B42 &G29B2 ?92
@2 89 8 :93B2 H23 <9 8 3:93 988 343 @2 89 8 :93B2I0
G' 3' 0] " ' #29B2 42 582BR HG29B2 49 8: BI0
' G:B: ' .2+9' 42 +G2B 80 +2 8 ; 24'
<BI8 2589 E 53 =29B2 3 B42 H+2 8: BI0 + '42 E 2 C
3B28< 882 ; 2530 '3G' LL AE 6 8' '+9' 4 3' 8 8:53
3B: 8 G29B28 <BG8 ; 59 3 < 88I280 '$, /'
95 ' + ; 98 '3:9328 828 G29B28 42 ; 2B28 0
' 0' 9B &G29B2 42 8' 50 ' ' ' + J52B
&=29B2 23 +2 + 290 5' 0 ' :93 89B &=29B2 ' '
)) ' ; : ; 2 5:98 . : ; <3:58 I' .2332 G29B20 ' 'C '
9+ 52 3:29B3 E 53 8:5 G29B20 ' 'FF' + 283: 3
I' .2332 =29B2 I' E 2 + 23 4 53 ; B I0 ' '7' 28
G 33 28 528:53 839B2 @ .2332 G29 2@ ?92 B:93280
" ' 0 IN" ' :98 :8:58 I' .233 G29B2 23 < B+2B 23 28*
.B B20]B: '50 " ' I' .2332 =29B2 +2 .= JB 5 <B24: ; 52
25 ; :R0 I' .?332 G29B2 + JB28820 ' 0 " 2
B:R0 & R 53 :9R < B+2B0 52 +9R B28<:54 3 B 25 I'
G29B20 . : ; G 25 ?3& + 2983 25 JB 542 4 ; B 3 :5
8:5 G:5 8258 23 8 ' = B4 28820 '9 '
+2 54B 4280 8&25 283 53 :9R 42 G:552 G29B20 93
< B . :539 ; .2 .:54 ; 5I I' ; :9B B0 '0 4B3. ' " '
:98 E:R2M . : ; ; 2 25 95 ; : ; 253 4&=29B2 5:98
E:58 G 339 '23 ; 8 8:98 5:M < 24M + ' ; 8:5 4& *
+2A 54B2 +2 B 540 '0 '6> ' + I' G29B2 ; 28 ; 2
+2 B:R 428 9+: 8 & R 53 <<2B.29 0' 'A * '
F' +M 29B253 3B E2B8I2 25 <29 4&=29B20 <:9B + '4 *
GJ2<.2 23 2 +GB3 ?92 2 B253 +28 E:J929B8 42 B ; 2B0
; ' = 4 ' ' 5 G:B+:J2 I' .:J5: 83B2 +28 G29B28
9 8:+2 +0 ' ! - ' F' '@2 ; &25 9882 <<2B?9
4&=29B2 >I' 32 ; <8I0@R' 29882 <:9BE29 <+98 3:830
B ' '1 ! - ' - ' B 28<B29E2 @2 8258 ?92 +28
; :9B29M 3B 38 +288253 <+98 :B3 42 +: 5 ?9& I'
G29BG ?9& +8 8:53 <BI80 ' N7' 8 G 25 8 58
42 ; 29B2P +5 <25 42 32 ; <8 < 882 &G29B20 '
' (0 B 3/' 0' < ' " " ' #29B2 42 59 30 G29B

$ $ $

42 @:9B 8:53 3:9328 G:5528 25 ; :9B0 ;' 5 '
.B0 B:5' 3'@0' < 'V: ' : ; ;2 +28 =29B28 42
5:83B2 .9B'0 .2 'E '8 58 4 B20 ::59B'17#' #' ""
-' (!' B:E25.0&!# '!# 3'28< J5'&!# 3' 3 +'
!# 3'49 + 3'&!# 3' * (' < P .: ; < B2M +2 J2B ; *
5 ?92 ' J:=' ;@#3' ++2 ; ' &#' 55 2P 23 +2 .2+*
3 ?92 ' J +' 7 #'3' G 8*GB23' 29B0 9BP \ ; BR0 Q#3'
M2540 "#' 55'20R43BR 0 5592+P .: ; < B2M 988'+2
58.B 3 " 7' 32 ; <80 .:9B80 ; B.=20 42 " ' ++2B'
2M20 9 AE 6 8 '.+20 B2.: ; ; 542 42 52 < 8 <B:*
5:5.2B &7# 3' .&283 .23 2 <B:5:5. 3 :5 ?9' 3 ?9&:5
3B:9E2 4 58 !:53 J52 7#' <:9B 4'('& 7#
3' # 'Q29*B2* /0 ^' ' E 8 :5 42 &G29B2
25 98 J2 25 + 54B20 ?9' 283 +' 42 ; 2' >2
4 B '?9 ' 42<9 8 +2 $9253R0 4' :B.2 4&253254B2 428
=:B+:J28 ?9' 8:55253 &=29B20 0=29B23320 +2 ?9 B3
4&=29B20 +2 42 ; *?9 B3 E2.'+29B8 . B++:58 4 E2B8P
42<9 8 +2 $9253R0 4 8*@20 6' :B.2 4&253254B2 3:9328
.28 =:B+:J280 @2 5& '> ; 8 <9 .: ; <B254B2 ?92++2
=29B2 +'43 30 '+ '& ' 0'<'""0'4 58
c
N (!' ; 593+'42 & 7#
! 'Q29*B2 *M2* ; 5/0:4 +L'+ &952
; 9 2B2 =29B2982' EB2 =29B2982 ; 253' :98 E2B*
B2M E:3B2 .B 532 =29B2982 ; 253 44?920 '1 " '
0' ' 58' 5 3 =29B2982 ; 253 +'G 3 +2 +'<+98 = *
8 B42982 23 +' <+98 4 8<9328 ?9' 93 @ ; 80 '
+!7 '"'D!7# !-' 43 9' . 2+ ?92 8' ; 5' =29*
B2982 ; 253 .B<2++2 43 3 89B ; :' &288 '42 8' 9*
B29B 5:9E2++2+ 'D# 'E0 C' ! +8 95 42 +29B8
9@238 =29B2982 ; 253 .:9< G+2 !&' 3 G 54:552B
+28 :R2B8 < 32B52+80 '' 6 ' 43<2*B:30 ; 0' "'
' 3B2 5 ' =29B2982 ; 2530 :90 =29B2982 ; 253 540
3B2 54 E2.' 42 G:5528 4 8'8 3 :58 ; :B +28 :9
532++2.392++28' +98 E:98 43 2M 548 =29B2982 ; 2530
<+98 E:98 4328 .:9< G+28 40 E: BB: ; <9'+'4 J92 ?92
+'5 39B2 2++2* ; 4 ; 2 82 ; G+ 3 E: B <<:842 6'E:3B2
G+28820 '0 -*/' @ '?/- ' LL E2.' 89..48'
2+ \' R++ 0 &=29B29M R++ 0 95 +2A 54B2 0 95
492 42 :BJ 0 :53 =29B2982 ; 253 < ++40 3B = 0 2 ; *
<: 8:5540 B E J40 4J:BJ4P ; 80 8& +8 82 8:53 .B98
428 8.2+4B 380 +R' 'JB 542 << B25.2 ?9& +8 43 253
3B28* ; +=29B29A0 ' & 'K 7# 7B'LL ' B
G:5G29BP 25 .2 8258 + 82 ; 23 8:9E253 25 3432 42
+'<=B 82' :52<42 25 E:8 ; 58 =29B2982 ; 253+ 8*
8220 '0&C' 50 ' 5 'E 9+9 <B E2B +2 <9G+ .' 42
.2 4 .3 :55 B2 93 +2 H& 5.R.+:<44 2@P =29B2982 ; 253
:5 5&R < 8 B4988 0 ' & 'K 7# 7B'#29K
B2982 ; 253 + R' '3:9@:9B8 4&=:554328 J258 < B ; '
+28 ; :583B280 23 428 J258 42 J:43 < B ; '+28 8:380
5U'+ ',&#! ' 7 44.' C%F'LL 58 .2 82580 + 283
?92+?92 : 8 89 E' 42 =7 '25 8:98*253254 53 ?92+*
?92 E2BG2 4&95 8258 3B 8*J454B +0 .: ; ; 2 3+ ##5 '
A' '##5 ' #29B2982 ; 253 <:9B +9' ?92 8:5 <GB2
52 & <2B'93 < 8 LL ' E 53 J2982 ; 253' ' 3 *
+:J52 283 95 428 < R8 +28 <+98 2B3 +28 42 +'32BB2 23
+28 <+98 =29B2982 ; 253 8 39480 ' +!7 ' ' '
' "6 2B ; 2 42 +334B 39B2 23 4& B38' &952 ; 5 2B2
= G +20 :B J 5 +2' 2+ '283 =29B2982 ; 253 .:5?90 2A*
<B ; 4' 2B8 28 =29B2982 ; 253' .5 5&283 <+98 4 K
.+2 ?92 42 32B ; 52B =29B2982 ; 253 9 2 82452 42
<:+3 ?920 '1! -'1! '@#' '
-'# '(-"* ' 2882 J529B8 4& B+2 58 23 4& 33*
J:9+28 ; 20 E:M 3B48 =29B2982 ; 253 52M 25 580 ?92
29 G25 20 'D ' 53 42 = 9+3 .38 ?9&'
E:3 =29B2982 ; 253 .=2E2M0 "'1 '28' ; R:3 '
42E2+:<<4 8' =29B2982 ; 253 +93 B?920 6 '%'
:R258 ?9& + 5& << B3 253 ?9& '+' :B3952 42 28 B
42 =29B2982 ; 253 .:549 B20 5'B 0 M
' 6'K 7# 7 ' 23 +2 89 A2 -
3' # 'Q29*B2 *M2*34U0 ' ' 3 30 ?9 +34
42 .2 ?9'283 =29B29A' & GG4'42 9A2+28 8&283 ; :*
?940 4 58 +2 2B.9B20 428 =29B2982348 ?92 +2 54:*
+:J92 !2B. 2B E:9+ 3 53B:49 B2 4 58 +'+ 5J92 23
428 <258428 2.:54 3B .28 42 8 ' +:5J92 <B4_.20
1 '"-' ' (!-'"'
-'# 'S 6 8' #29B2982340 7
' 'K 7# 7B
S0 'Q29*B2 30 B2 *M/0 :4P LL+6 $9'
<B: ; 23 42 &=29B0 42 +'G:552 .= 5.20 42 +'G:552
:B3952' 5 =29B29A <B:5:83 .' 'H+2 <B 5.2 4:9 B4
42 E 2B2I .:5593 G 25343 +28 2BB29B8 ' =29B29A
<B48 J28<:9B3 ; 8:5 < + 3 52' 8' .:5E2B8 :5 3
89 E 2 42 .2++2 42 +'<B 5.2882 :9 82 8 '8.29B' :88'
?--'"'1!#-' + + ++ 3 .:589+32B +28 253B +28 428
.3 ; 28 <:9B E: B 8' B:<=:5 98 3B:9E 3 G:5 ?92
:5 428.254+3 4 58 8:5 53B2P ; 80 ?9 54 2++48
9B 253 434 3:9328 +28 <+98 =29B29828 49 ; :5420
.2 5&23 3 25.:B2 B 250 I 6' #(' 0 M'
' 0 $9' <B:.9B2 42 &G29B0 44 +'G:552 .= 5.20
42 +'G:552 :B3952' #29B29A = 8 B4' = 5.2 =29K
B2982' .. 8 :5 =29B2982' + 283 =29B29A ?92 E:98
& R2M 2E 34' &283 =29B29A0 .&283 :B3 =29B29A <:90*

I1 ' 'I1 ' I [M1 ' '-M 'E ')
. J 'c '2 ',$2' 2 .: JE$2' ' M 2$ ' 2 J
A N & ' K P:4 # M M '? $ I1 '
1 ' 'M 'I1$ $ ' 1 ' K ' $ 'E # .)
$ '2 'J1 . $ 'J '2$ #$ ' 1 ' ' I 6)I1 '
. '2' $ '2 'J$J $J 'E 'Q 9 'U '
' ' 1 $? M '_: '4$ 'E # ' .$ ',)
M$2$4 M ' '$ 1 $? M ' 1 '# $M '2' ^
$, J $1 '? :1 ' . 1 I ' .: 'JE1 '? $: $
.,$ . . J 'B 'I1 'J 1$ 'D1 '
M J 1Q [R J: '4$ 'E #' ' ; # ! ? $
1J '$M '41 'JE J '! 'P 'B 1 ' ' '
2 'E # !'J 'E1MM 'c '2' 1<12 : I $ '2 .
$ 'B '0 1 ' ! ' K ' 'O$< .M ' $ ' .' 1 '
'E ' . 1$2 . $' . '1 ' ')
$ ' ' O $ ' 'E ' J1 '2 J1)
'E 1 D ' 'E .'J '? ':1 'JE JE $
'? ' 1 ' : . $ ' 1 I '$,$ ' _: '
J1 'E ' .$ '.: '41 'M1 .: ' $
.: $.: ' '$ <. $ 'B_E1$#E #
J1 $2 E # JE1$# J1 $2 I .: '41 ' J)
J. ' '_'1 ' '2 'M $ 'E $2 < < ' 1)
D ' ' ' ' ! 'J $ ' # .'J)
$2 ' I < # .:. '1 ' 'J1 . '2 $ .1)
'!'J1 ' 'O$< .M ' I1$ '2 'M $ 'E
. $ '1 .$ $ M). '2 'JE1 '? :1 'M$)
. ' ' 'c $ ' . :E . '2 '41 'JE J .
2 '41 ',1 ' 2 ' . 1 ' 2 '
.'E #' $ 'E # ' 'E # '
,, $ 'D1 .$ ' 'B$ ' M. ' c ' 1 '
1 'J Q1 '4$.'2 ' 2 ' . J2 $. '2 ' 2 'E '
4$2 ? .' 1 ' 1MM '2 ' 2 ' .2 I . '2 'a$21 '
E #5 ' ' '0, ' $ $ 1 ' $ '
3B2 54 ' 4 $ J '? '$ 2 $., $ '2 ' $. .
$ 4$ '? '2 '< . 'J1MM 'E. . .$ $ $ '
9 'P 'J .$ 2 [$ 2 'E #
.': I1$ ' 1 I .' 2$ $?:2 '2 'J <21 (-
'1 ' ; # $ I 5 'J 'JE I # 42 J
. 'J1M '? ' ' .1$ ' . ' 'M1 ' .M$ $ ^
$1 ' I ' 1 @ = , '
' , 1 'A1$. 1 #E # ,$2 ' $ '
. ' " '$ ' ; # . 'M 'M 2E '
.: ' I1$ ' 'J $M '_ '1 ' :4$ 1$ ' !
J # ? $2 '1 ' $ J ' '$! 'c ' .1 ' .$
'E # J .2 . 1 ' : ' 'J.'M1 '? '
JJ. ' ! '" ' ,7 'C $ J1MM '
2 'E1MM '21 < M 'E # J '? -$2 U ; 1 .1 '
. $ $2 2: . N A ; $ 0 ' - I ' 'C$ '
E # ? ' < 2 'E # ? - 'E1 . '
E1MM ' .$ ' 1 ' # 2$? '41 'JE J '
'M. $. 'D ' . '2 'E # ? ' < ' f@
[I1$2!' ',1 '? ' 'I1 ' 2M. <. '
'$ " " ' '$ ' 22 [,$$ 1
22 [I1 . 'E$ 'E #? : E1 . 'E1MM
P G # ' 'JE ' # M1 '
.$ ' .'J 2 $? $. $ 4 ' . ' , MM 'B '
' '2 '4 # ' . $ 'M$ #'B '2 '
$ $. 'M ' .$ ' :$2 'U2 'M1 $ S 'J1 . M)
$ ' 'M1$ 'J ' '1 $ $1 ' .)
$ 'M $ ' ' , ' 2 'E # 'J
J1 . '? $1 ' ' o / '*O I1 $ ' .'2 '
,1 ' . ' 1 ' 2 ' . 'JE1 ' '
1 '2 ' $2 '? $I1 '1 ' 1 '2 'M M 22 '
? $ I1 '1 ' 1 $ ' '1 ' '#'=,*'
KT ' 'J1M ' M$2 ' 2 '< . 'E$21)
E ' ;$ 1J '2 ' ! ' .'2 'M . J$? $ J2 '
'M2 ' ' 'J 'E # M ' .'2 '
N J ' '$ 'B 'I1 . $ '. 'JE 2$ 'I1$ '
:4 'J1 'U 'I ' '!VC '# ^
$1 ' .' :$. ' . '41 'JE J '? $ ' 'E
? $ 1 $ ' . '41 E ? $ 1 . 'J ? $2 'J1
B 'M1 $ 1 ' M42 'E # 'M 2E #
" ' '$! 'X$:1 ' $ 2 '< . ' 1 '
. 'E # '% '0 ' ' .* M
E # M I1 2 [)I1 'I1Q < R c 'J ' 1$'
$I ' 1JE $ $ - 1 '$# ' '41MM '
E # . 1 ' , M$ '
'9 'P:E # I$ $2 .' 1 $' ? :! '2 ',$ ' .
. ' , M$2 1E$2 'I1$ $ ' . ' , $42
'1 ' I I ' ' ' $ '? '2 'M1 . '
1 I '$E " ' '2
J1 . '? ' J1 2 ' .: $M 'J 2 $? $
J1 $. ' ' :$M ' M 22 M 2:!M ' ,$ 1 42 '
'I1 2 ' '= 'H '_1M4$ ' 'M1M
E # 'M$ $ 4 2 2 (, 2 ' ; #
? $ $ 4$ ' . 1 'E M42 ' ,1 'P$4 ' . 1 <
4 '1E ' $ JE 'D$ ' ': '14 J '1 '
2 ' .$ # :1 'J JE 2 $ '$ " '2 ; #2 ')
2 '? $ ' J1 . $ ' < ' 1$2 7# ' '#2
P:E1MM '? $.$ '? .$2 : ' 'E # 1 $
. 'M1$ '2 ' . I $ ' '2 '41 E ' . ' M$ '1 '
. ' ' 1JE ' '#$ 2 F 1 ' J ' . '
E1 ' .: ME # ! '2 'D ' . '1 $ 'M$ $

' 1 ' 'I # ? 1 '2 'J ' 1$ 'E # . '
M '1$ D P 'U '$ 'C . ' 1 1 '
E # '2 ' $ ' E$21 1 E 2 ' . ' $M 'J:
E J1 ' 1 ' ' 1 ' . ' : ' '21 < M ' .
' ' $ $ ' ! '6 ' ,7 2 $ ' .
J '14 I $1 ' M 1 ? '$ 'M1Q ' .:
E # J: ' . ' 'J1 ,1 M '!' :1 . '1 ' #)
1 '? $ 1 ' '2 'JE1 '
' J1 J2 'B ' M ' 2 I $ ' I J 2 ' 12 $2
: $ 'E #' 'M 1M $ ' : $ E #
' I1Q $ ' M M ' : $ 'E #' '2 '
? $ $ ' : $ 'E # '6
! 'X1 - 1 M ' 'E # M ' .$ $ M ', MM
$2 1 ' $I '? 2? 'M 2E A X kP B,B7
' ' 'E # J1MM ' ' 1$)E)
< ' :41 . J ' 'E # J1MM '
' 1$.$ '2 ' 1 2 'E 4 ' <J *
E # ' .$ ' .: 'E1MM 'M $ .DM ', MM
M $ '? $ 1 $ 1 ' . '41 E ' . '2 'M <
P -M ? $ 'Y '? ' ? 2$ J4 $M '
1 '< ' $ $ ' 1 '2 'E # ' 'P 'J1M)
'YC2 'E # '? 2 'J '2 < < RM $ '
$ ' 4)4 F ,7
'W ' 'M 'E # M '? $ ' J1)
I1 $ ' ' 'E #14 $ '2 ' . , I J
.: , MM ' I$ ' . 1$ '? '1 '
J 1 E '2 $ .1 $ '!'2 'E 2$ '$2 , '4 2
E # , '1
? 2? ,1$ ' $M $ M ' 1 ' $, $ ' ; $ 12Q
'E # ? : # . ' . 'I1 '1 'D1)M M
'#S3 ' Q$ [' .$ J1 'o '2 '
_1 ' ' 1 'E # .: I1$ ' J1 ' [. 'I$ '
1 ' M1$< ' ' 1$ d ' J1 $ J
= , ' ' ' , 1 ' 22 ' : $ 'E ' $ 1?
I1$ ' 2 J ' .: 22 ' 'J4 ' ,$2 $ 1 ' :)
D1$ ' 2 J ' . ' 'M $ 1 '1E 1 ' < .
1 & ' . '2 7 'C ' ,1 M 2 ' . 12$ 'B '
'E # . 'I1 ' J I1$ 'JE [M1$ '7 '
? 15 . '1 $ ' '41 4 'P: < 'E # . ' :)
4 ' J1 .$ $1 'E 'E
I$ $2 'P ' 2 'E # 1 ' . '4 'I$
4 9 ' . 'M1M '4 '1E 1 ' 1 $ 1 '
. '1M4 ' ; ' $<M ' 1 'I1$ '4 'I $ 'M ^
$, $ M ' 1 'B '4 ' $M M ' 2$ ' I J 2 $
UB1 E $ $. '2 ' M ' . ' I$ 'E ^
J-)!) .$ '$< 1 $J 1JJ ')
< 2 ' 'A ' < , * '
4 ' 'O $ ' 'E ' ,$ M1 $ ' . '2 '
$M ' .: 'E1 'JE $ ' 'c $ 1J ' .
41 4 . ' 4$ $ ' $ ' ; #
1 'A < 'E # c .'1 'Q 2$ 'U. ' : I)
<$2 $ J 'E # 1 ' . ' 1 .$< ' 1 I '
B 9 ' M '2 'E # M '
$M $ J 'D1 ' , $ $ ' $ ' . I1 ' .$ J
" ' 'M T ' 'M1$ 'c $M ' $ ' 2$?
!'JE JE '2 'M1Q ' '2 $ 4J2 ' .E)
2 M ' 6 7 ' I 'B ' . '< J '
J$ 2 ? 'I1 '$.$, ' 'M 'E # 1 $ '
M: (' $ 1J J $ '& ' / 'B '2 I$)
. $ 4$ 'E # 4 M : J4 '
, ' . ' ! 1)M M ' U '
M '! 'U 2 'D ' .: ' $ 'M1$ ' ,2 ' .:1 'JJ
2 ' , J$2 ' 1 'I1 ' 1 <4 #4 $ ' ,$ 1
.1J$2 $ ' 1 '2 2 ' : ' Q '2 ' $# M ',1 '
$,1 M: . ' : 1$ '4 # ' , $ ' J
1 'M1$ J '? ' '4$ ') 1 ' # M '1 ' 'D '
$I 'X1 ' 1$ '1 ' 1 I 'E # ' . 'M '
J M ' ' '# , ' ' ' , 'c $
4$? $ ' ' JJ$. 'E I$< ^
$1 ' ; # . 1 ' J1 JE ' E
' ' .$ ' . '? . ? ' JJ$. '? $ 4 ' .
$ '4JE ' 1 'M M '? $ E ' :E
'JE 'E ' 2 ' .1 ' M $ ' $
' M M ' X$ 2 'E '
1$?$ $ ' M ' 'M 'c $ '4 $
$< :E 'J ' & ' , 'M '$ $ '
' .$ '? 2? ,1$ 'J ' . ' 1
E # J1 42 ' 2 'U2 ' 1$$ '2 $ '? :! 'I1 #
' M1 ' :1 1 'c 2E # * 1 '
'4 'J R ('A ' $ '
. '? 2$ '4 I1 42 '. '2$ # . 'J$M ' 1 '
' J$ 2 '2 '4 # ' 2 ' .$< ' . '1 $ '$4
'P ' $ $1 ' . ' : Q 'E ' 1 2 'J1M^
M J % ' 9 ' 'P X1 D) ; 124 .
'( ) ' ' 2 ' . '? '1 ' 1 ^
1 ' $ ' 1 ' ' J1 ' 2 'E # #
' BB ' 2 ' . ' :E$ ' 1 '8_ I ' M T0
" ' ' . $ ' .41 '? ' EQ $? '
(M1 2 'c ' 4 4 G1 'E ' < $
4 # '06 M ' 1 'E ' , J1 .$ ' . 1 E2 $
1 '2 '1 '2 ' J ('2$ ' . '2 ' M1 'M 2
G ' ; $ ' <2 ' 1. ' . # U E ' .: $JE

$ $

' $) 4$ 4 $.: ' $ E ' J1 $ $1 ¶
? ; 2 ' M42 $ ' 1 ' 1M ' 2 ' 41 4 ' .1
2 ' 1 .. ' ' $4J2 ' $ ¶ 'B 9 A ' Q
. ' M M 'E #? $ ' 1 12 ' . ' 1 ¶
; P ' 2 ' T'B: $. ' J ' 4 # I
2 1J$ ¶ = ' $$! ' ' :E ' M M1$ ¶
' .$' . ' $ J ' M1 ' ; $' ' ' .1 ' 2 '
M1$ ' ' I $1 ' ; O$<' ' .$' . ' J '
? ' 1 ' J1M ¶ . '2 ' J41 ' .: $' ' .: ¶
' JJ ' . ' :E ¶ . '2 ' 41 ' JE J ' A $'
E ' ; ' # $1 ' D ' E #' 2 '
A$M ' E ' ' 1 ' E #' ' ' 4)
J41$# . ' M1 ' E M1 $ #' O Q [. ' M)
I $' 1 ' 2 ' J1 J1 ' 1.$ # ' & ' ' $' I$ '
.: ' 2 ' E ' ? : 2 ' I $ 42 ¶ ¶
' ' ! ! ' M1 ' E #? ' : 1)
4 $1 ' M ' ' 2 ' 1 . $ ¶ ' 2 '
' ' .$' . 1 E ' . ' 21<
B: $ ' [4 #) ' 2 ' $ I ' U. ' M JE$
$ ' 4 2 ' . 1 ' 2 J ' . ' 2 ' $ ' .
$M ' ? ' & ' & C 1M
J1 J I1$' 2 ' M $. ' 2 ' 2 ' .2 I ¶ E
4 2 ' # $M ' ? ' .' $2 2 ¶ I $' ,1$?
1 ? ¶ 7 3; ' = ' N .'1 ¶ 1
I ; ' 4 #42 ' . 2 ? ¶ 1 = ' ' ¶
' O$<' $ I$ ' , I1 42 M ' X1 ' '
J 1$ $ ' ? ' M1 ' ,$2 ' $,2 #$42 ¶ 1 ' . ' . E1
E # J JE ' ' J1 ' $ $42 ¶ J$ ¶ &1,
¶ T ' # .1 ' 2 ' EQ $1 1M$ ' ' . 1M4$
. ' J 2 ' ? :1 ' E ' J ' ? : 2)
1 J ' ' J J4 ' $,$- 42 ' 2 ' 4$, $ J ¶
G $M ' G ') ' 2$I ' D ' ' H 4)
$I M ' 2 $? (' ' . ' 2 ' 41 E ' ; '
1$' . ' J ' $. 1 ' U$.$< ' , I1 $ $ ' Q' M4M'
. ' JE $. ' $2Q' ' 1 1 ' .:$.$< ' E #
G P ' ! ' ' * ' 3 ' & ' P:E1MM ' $M' ?M 2$)
< $ ¶ M $' J ' : ' ' J ' 2 ' M 2E #
M $' J1 ' 2 ' E P 4 ¶ 8 , ; J o ' $ '
D1Q [' E # - 2$ [' ' I ' .: ' ;
J 2$ ' . .$. ' .: ' ,$ ' M1. $ ' J1M4$ ' $2
' J1 ' . ' ' . ' 1$)M .M ¶ ' ' I 2 '
2 ' 2 $ $? :1 ' .1$ ' $ ' 4, $. ' E # ' ' ,
. ¶ & , ' 2 ' I1$ ' ? ' J ' 1 ' , ' 4$ ' .
E # ' K ' ; BL ' o ' $I ¶ ! ¶ P ' E #
. ' M1 . ¶ 2 ' E # . ' 2 ' ¶ ¶ . ' 2 ' 2)
< < ' . ' 2 ' JE $ ¶ ? ' E # . ' $ .J2 ¶ J #? $
1 ' . ' 2 ' $ 4 ¶ . ' 2 ' $ J ' 2$ ' 1 ' 2 .
2 ' 2 ' E # . ' 2 ' ¶ , ' & / ' ' '
G?K, ' $ M ' , 4 ¶ $2 ; ' ' ? ' ? ' 2 '
< ' . ' 2 ' E # . ' M1 . ' ? $ ' 2 $<
. ' : #J4 ' . ' 2 ' $E ' . ' 2 ' $ ¶ $ '
& / ' & * ' P ' E # . ' 1 ¶ 2 ' E1M)
M ' ' 2 J ¶ ' J .$ ¶ ' , I ' O M2)
M ' ' # <. $1 ' O $ ' ' E # , $ '
. ' E # 1J ' ' I ' < ¶ < .' 1 ' $'
B: $ J? $ ' I1 ' 4$2 ' 4 M1$ ' . ' I$ < ' 1 ' J ¶
' : $, $ ' . ' E # J1 ¶ 8 ; ' ! ,
,1 ¶ Q ¶ K ' C $J 4 M ' O $ ' ' E #
.$' .: ' , MM ' ? $ $, $ ' 2 ' I # .:
M ' c ' .: ' J1 ' M1 # D1 ' $ $ [2 '
J1 ? . ¶ D1 ' , $ $ [.$# E # ' : $ [
J1? ¶ 9 ' = ' C 1I 4 ' ' :E $
E #¶ 2 ' ,1 ' I$ ' 1 .$ $ M ' 4 J 2 $
? $ ' E #' ' 2 E: ' 4 # ? ' J 2 $? $
J 1$' :. ' ' - ' E # ? : ' ? :1 ' 2 '
J 1$' . ¶ ' ; ' & ' $ ' ' c ' ' 1 < ¶
' $ ' 2 ' 2 ' E # . ' 41MM ¶ ¶ .4 ' ? ' 1 '
J 1Q1 ' ' E # 1 ' 2 1MM ¶ ; ' !
PAI$PP ¶ ' ' ' ' T
' A ' ; # ' Y E # ' ' ,, $ ' ; ^
. ' Y E # . ' $ ' ;
. ' E # . ' 41 E ' .- $' ; # . ¶ I J
' $,$ $ $ Y E # . ' I$I ' ; # 4Y $'
E #4 # $M ' J ' (:$2 J1 ?1$ ' ; #?
I J 2 ' I 4 ' ' 4 1E $Y ' ' $ ' E #?
Q1 Y JJ $ [M1 ' 1
' ' ' ' D ' c $ J4 ' 4$ ' 4 JE.$ ' 12 '
4 2 ¶ ' 1$ ¶ J ' . J4 I 2 $ ' 2$ 2
1 I $ ' . ' J ' M1 ' 2 I$ ¶ ' . ' ' # 1 ' I$ ¶
T ' P ' 2 ' ' . ' 1 ' J1 ' ? ' 2 [1 1$'
1I ¶ ' # . ' J ' .1 ' ' I ' M 2 ¶
2 , ' B ' #I ' ' c $ ' M1 ' I '
4 # O ' $' $ ' . ' $< $ ¶ $PP $ 1 I
E 2 ' D ' ' ; ' 2 ' M1 ' ? $ '
A: M ' ? ' 1 ' 2 ' $ ' 42 [¶ 2 $
. ' J1 ' .: . ¶ 2 $ D J $#E ? 4 . ' E ^
' . ? 2 ' $M ' 2 ' 42 . $ ' :1 $2 ¶ !
' ¶ $
, 9K 41 < $< ' , ' $J .¶
' G Q ' ' > 21 ¶ , ' 21 ' G4 [¶
D ' $4J2 Y +' , ' J ' ? $ ' 1 J ' 4$ ' O J
1 1 J ' E #3 ¶ ' #I$$ ' $ J2 ¶ E$,,2 ¶
2 ' ' ¶ .$' ? :1 ' 1 1 J ' 4< 2 M ' E +)

, ' 1 ' , ,7 ' P: J$ ' 2 < ' .$ $' 2 .2
1 '
' ; A2 c G 0) $) $)6 (' 1 ' ; ,$DA c G
0.)I) $)6:7¶ ' ' ' M ' .$. J $? ' P: ' .:$)
I ¶ . ' , $ ' . ' ..J1 I ' ' K ' . - ' P ' M)
E1. ' E $ $?
VJ # ' $1 $#((QI ¶ : ' . ' 1 I ¶ . ' ,I¶
1 I ' ' , +, ' 1 ' A / +, ' J ' ? ' 1
< J ' ' .:1 ,$ $ ' ' / ' ? 2? ,1$ '
G A ' 0E ' E$,,2 ¶ 2 ' K&T¶ .$ ' ? '
2 ' ' 1 1 J ' 1 . :E $ $ ' ' 1 1 J '
2 7¶ ' ' ' 1 ' .1 ' E ' J1 '
? 2? ' JE1 ' P ' 1 ' ¶ :1 I ' 4 M1 '
E ¶ ' 1M4 $ ' 2 ' I ¶ ' # ' #'
E ' I$ ' . $ ' 2 ' JE ¶ ' % ' - ' I$$'
' PE ' U $ ' M$' ' 2 ' .1 ¶ $' :1 ,
4 ' C $ (M 2< 4 ? 2? ' E ' ? 2?
M I $' ¶ P: ' 2 ' ' 2 ' ? ¶
1 ' ' ' O$< ' P ' E ' ? ' 2 ' 2G
' .1 ' # $ ' ,$' 1 $ ' 2 ' #$# ' $ J2 '
1 $ ¶ ' 2 ' ' 1 ' M $ ' E1 ' . ' I1$ ¶
' . ' 2 ' ! ' ' K' P ' M ^
' ? ' ? ' 2 ' J1 ' ' 2 $ 4 ' JE I 2 ' E '
$ ' . ' . ' I ' ' V M ' . ' M ?1 $ ' P: . 1$'
2 ' 2 ' $ I ' .: ' ' 1 ' .: ' 1 ' . ' $ ¶ .:1$2
1 ' J1MM J ' 4 .1 ' . ' 2 ' ' . ' . #J. ¶
1 ' J1 2 M ' . ' #' ' ? $ ' JE
' .: M$ J ' ? : ' ' ' ' J$
2 < c :$2 ' ,$$$ ' E ' . ' 2 '
: $I $ ' J 2 ' . ' C1$ $ ' J 2 ' . ' G 2)
JE ¶ I$))I$ ' 2 ' M $ 1 ' . ' - B1 I ¶ . ' 2 '
E ' J1 I 42 ' 1 ' 4J1 2 ' 2 ' # .: ' J
. ' 2 ' . ' C1$ $ ¶ ' .: ' J 2 '
G $2 JE ¶ ' ' 2 ' ' . JE < 1 ' . ' 2 ' $)
I$4 ¶& ' ' TM ' wT $' ' ? 2
? ' I$2 ¶ 1 ' 1MM ' E ' 42J ' 2 ' . 1$'
- .2 $< 4 ' ' .M$ $ $1 ' M J ' 2 ' 1 ' 2
Q .4 E < ' 2 ' 1M4 # . ' . J1M4 ¶ . ' <)
i I ¶ J
S ' (' !J ' P: # 1 ' 41 ' 1 ' E ' 2 ' .$
B E ' ,1$ ' 1 ' . # . ' 2 ' ' J1M4$ '
? 2 ' .$E ' 1 ' 41 ¶
M$ ' E ' ,J1 . J21JE ' . ' $M ¶ ' 1 ' 1MM '
1MM ' $' J1M (4 ' 4 2 ' , 2 ' ? ' 1 '
21 ' 2$ ¶ 2 ? 2 ' 42 M ¶ . ' 1 ' , 2 $)
¶ M $' . ' M1 2 ' $' E ' , 1$ 4 ' JE$4
(' ' ' 3 ' ' $ $ I1Q2 ' .
' . ' E ' . ' 2I $4 ' << ' E1MM '
M 4 ? $ I1$ ' I1Q4 ' $< E. ' 1 2 '
M4 . ¶ :Q I1$ ' ? ' 1$' M $ ¶
' I ' ' $ ' $2 ' 1Q ' ' J ' 2 ' < ' ,$ [
$$ [' J1M4 [? $ ' J M ' , ' , $ [
79 ' A ' / , ' UCQ E1 $ ' . 2 ' E ' . ' JE)
' ¶ ' $ 2 ' U $$4$ ' : ' ?)
2 ¶ $ 2 ' J $ ' 2 ' E ' 2
J1 $ J ¶ ' ' T ' : 1$ ' I J [?
' $ ' E ' U M$ J $? $ < .1$ ' 2 ' J$)
. 2 ¶ A ' ' & ' ¶ .
D1 ' , ' JE < [' ? ' ' J . 1
? $ I1 ' M ' 2 ' I$ ' ? ' 2 ' ' ? :4
' $ ' E ¶ ' A ' +' $ ¶ ' K ¶ .
5C 8#' 1 ' ' E ¶
' V#9 ' D1Q ' K $ 2 ' 1
' G A ' 0E) :7¶ ' ' M ' Q M$. 2 . ' M)
$4 ' ? $ ¶. ' ,1 ' .: $ J ' 2 $ ¶ ' 1 I
1 ' 2 ' 1 $
8 # ' . ' 2 ' ' .:4M$ J
* #45+#' % ' 0E) 4¶ 7¶ ' '
E ' ' ' c $ ' ? ' E ¶ ' JE1J ' UD1 '
$. ' 1 ' 2 ' 42 $ 1 ' , 2 .$ ¶ E 4 . ' . #
J1 ' 1 ' ' ¶ ' ' $' ¶ ,1$ ' .
JE$ ')$ 1J ' ? ' $I ¶ / ' C1 I ¶
M J ¶ ' ' : ' E 4 ¶ ' H '
' D ¶ ' K ' O$<' ,, 4 42 4' ; 4 ' .
12 ' $ .4 142$< ' $ 1 $4' ' 4)
<4 ' E 4 ' ' 2 ' E$21 1 E$ ' ' M ' . ' $)
' 1 ' 2 ' $ ' ' 1 ' ' ' . ¶ 2 ' J1 ^
1 ' ' .1 J$ ' ' 1 ' E 4 ' ' 1 JE '
21 . ¶ ' M $4 ' ' 4 $42 ' E ¶ '
' ' &T T¶ > , / ' #$I ¶ ' .
' I ' ' $J 2$4 ' U ' 2$ $ 4 .
2 ' 21$ $ ' ' 1 .$ ' 2 ' 14 ' ' .$ $M 2 ' J
? ; 4 1 $ ' I1$ ' . ' . ' 1 ' . ' E 4 .
2 ' ' ,1 M ¶ ' $
' O $ ' I J ' < . ' 2$4 ' ' ? $ ' 1 JE4
? ' . ' J1 ' E .$ ¶ 2 ' 1$ ' . 2 ' $)
¶ 1$ ' . ' 2 ' J 2 ' 1M 1 $$1 ' 2$4 ¶ , ^
J$2 ¶ I$<1 ' ' 2 ' M $4 ' E 4 ¶ X
' # ' ' T T¶ > , / ' #I¶ ' ' , ' 4
' < I ' . ' 2 ' M$4 ' 1 J ' 1 ' < I ' .:)
$1 ' 2 ' < ' E 4¶ ' 1 ' - S ' C ' # ^
$1 ' P ' $< 1 ' E 4¶ :)) .$ ' ? 4 J1MM '
#! / J1 ' . ' $ J ' 1$ ¶ 42 ¶ ' 1 ' 1 <

9*428898 49 G22 829+2 ; 253 23 @98?9 9 ; + 29
42 + ' 3G320 E2. ' + ' ?9292 42 + ' 87 ' .:9+29B
23 3:93 +2 B2832 49 .:B<8 G+ 5.0 283 95 < J2:5
:B3 B2.=2B.=2 428 .9B 29A0 %% ' C ' A E0 < '
"6 2B ; 2 42 =33GB 39B2 ' 3R+2 =29B3G0 83R+2 4:53
+28 <258G28 52 82 89 E253 < 8 :9 82 + 253 4 . +2*
; 2530 4:53 +28 2A<B288 :58 :53 253B2 2+28 428 . :5*
3B 8328 49B8
' # ! ' Q=29B*32* ; 5/0 ' ' IL 6 .3 :5
42 =29B32B 2 E 882 9 <9G+ . ' B2.2EB 3 8 58
4:932 952 JB 542 82.:9882 89B 2.92 + ' :9 8:5 < :32
.=GB ' 9B 3 + 88G 3:92G2B ; 8 .2 G29B32 ; 253
52 E:98 42.:9B J2B 3 < 8 E:98 82B 2M + 0 ; 28K
8 29B80 E:3B2 2BG4 3 82B 3 53 .3
* ' ' " ' " C ' HF ' 25.:53B2 42 429A E:R2+*
+280 = 398 ' >2 8 952 JB 542 4 2B25.2 253B2 +2
. :5.:9B8 428 E:R2+28 23 +2 G29B32 ; 253 428 E:R2+28
+ R ' +:5J32 ; <8 ?92 @2 E:98 ; 2 ' .23 + R ' 283
:B3 4:9AP ' ' & 283 95 G29B32 ; 253
B29A0 ' = ' ¶& 1 ' Z ' : Z ; B8+CC /
' ' O I ' 53B2 & ' 9=, & ' +& 7 - ,2& & ' 54 '
,3+ 4E&+& ' 6 - 4 &42 ' =&42+& 7&3 ' %& 8,2+43& ' +28
- 4 ' &42& ' ,3+ & ' - 4 ' 7&% ,92&& ' ' , : :
' ? ' ,
3 ' # $ + ' Q=29B*3:*\ 5/0 ' ' ++ 2 ?92
<:B32 95 288 29 42 2B0 23 .:53B2 + ?92+2 E 253 82
=29B32B +2 ; :R29 42 + ' B:92 ' L ' :B5 42 429A ; :B*
.2 9A 42 2B G 339 ?9 ' 82 <+ .253 89B 2A3BG ; 3G 42
288 29 4¶ + +3 4¶952 < G.2 4¶ B3 ++2B 2
' Q=29B*3G/0 ₃ ' IL 0 :9.=2B :9 B25*
.:53B2B B942 ; 253 #29B32B ?92+?9¶95 25 < 88 53
2 =29B32B + ' 3G32 .:53B2 95 ; 9B ' H 5 E +23I #29BK
3 53 3 G+2 23 3B232 9A0 E2B82 3:93 H95 <+ 3I 89B ; 28
.= 98828 ' # ' A ' ¶95 ; 2 =29B32 4¶95 8
4:53@2 89 8 3:93 B: 88G0 ' # ' / ' 29B ++9B2
H428 3 < B8I 283 GB98?920 230 8 58 .=2B.=2B 0 25*
82B0 +8 =29B3253 B942 ; 253 3:93 .2 ?9 ' 82 B25.:53B2
42E 53 29A0 %% ' J , , " ' 3 ' A0 < ' ' 5 @:9B >2
+ G:9B29B 4 58 .28 ; G ; 28 8 ++:58 ' 4:B ; 253 +28
42GB 8 42 3 53 42 G 3 ++:580 #29B3 53 E2. ' +2 8:.'
+29B 53 ?92 4G<:9 ++2 0 ' 2 ' L J ' '
82 4 3 428 .=:828 ?9 ' 82 .:53B B 253 ' :53 + ' 3G32
283 8 ' 3B:9G G2 23 +28 4G28 8:53 ' 32+ < : 53 42.:98928
?92 4 58 + ' ; G ; 2 < J2 952 882B3 :5 825828 283
=29B3G2 < B 952 882B3 :5 ++2 23 952 882B3 :5 :+2
< B 952 882B3 :5 8258G20
' . ' 5 0) ' N ' IL 6 B 2A3258 :5 24 342+ B25*
.:53B2 428 E:R2+28 ' B42M ?9¶952 E:R2+2 6 . :9B+B
3B:< =G322 2 8: 3 4¶952 E:R2+2 25 ' 8:5 ' .=2 ; 5 =29BK
3G20 ' $ & ' " ' ' J ' +2882B0 :+ 2582B0 25
< B+ 53 428 <2B8:5528 ?9¶:5 =29B32 ' 3 J B42M ?920
=29B3 53 .2 .:29B 5 ..288 G+20 :98 52 E:98 R G+28*
8 2M <258 53 +2 82.:9B B0 ' # 2 ' 0 C '
25 52 5:98 =29B32 <+98 B942 ; 253 ?92 .2332 4:.K
3B 52 H+2 <2.=G :B J 52+I0 23 .2<254 530 8 58 .2
; R83GB2 +2 <+98 5. : ; <B2=258 G+2 4 ' 3:980 5:98
8: ; ; 28 5. : ; <BGG258 G+28 G 5:98* ; G ; 280
2 ' ' #4 ' ' " ' G4 ' %
¶ GGG 2839 G3 3 :B3 4 . +2 6 < B4:552B0 23
; G ; 2 _ 52 < 8 <:9B89 EB2 ?9 .:5?92 E 3 =29B3G0
' N 0 " N ' ' :53B B 2B0 25 < B+ 53 428 .=:828
?92 :5 =29B32 ' + 52 <:9BB ' =29B32B E:3B2 <:9E: B
89<BG ; 20 " " ' 3 * ' 3 ' 0 ' #29B32B 42 B:53
828 8253 ; 25380 2¶283 +2 ; :R25423:93 J 32B0 '
& / ' 0 F ' 2332 JB 542 B: 429B 428 E2B398 428
E 29A _J28 #29B32 3B:< 5:3B2 8 2.+2 23 +28 . : ; ; 958
98 J280 ' > 3 ' 0 ' + 293 8: 5 42 ; 5 2B 28<B 3
49 @2952 3RB 5 E2. ' 952 4B2882 ; 2BE2 ++29820 2E *
3 53 42 =29B32B 42 B:53 828 < 88 :580 ' '
' :> , / ' 3 ' E0 < ')0 4 58 ' $9 54 :5
E293 E RB2 4 58 95 < R80 ' 5¶25 93 < 8 =29B328 +28
<BG@9JG80 C ' A ' * , " ' ' ' 28 J258 49 <29*
<+2 :53 428 :B ; 28 882E JB:88 GB280 89B3:93 ?9 54
:5 E293 =29B32B +29B ; 5 GB2 4¶G3B2 = G 392+20
' & ' ' ' 2 8:5 49 .:B0 +2 GB9 3 428
B ; 28 5¶:53 B 25 ?9 ' =29B32 +2 J:930 ' 2 '
' 50 ' " ' I 2B ; 2 42 <2 539B2 ' 2 54B2 B942K
; 253 ' #29B32B 95 3 G+2 9 ' 5 4 3 ?9¶95 4288 ; *
329B =29B32 8:5 :9EB J20 <:9B 2A<B ; 2B ?9¶ + 5¶R
; 23 < 8 + 42 ; 2B2 ; 5 ' ILN ' ' 5 ' :5528 95 .=:.0
B2.2E: B 95 .=:. ' #29B32B .:53B2 95 : ' < 2BB2 ' $9¶ +
H>G898* =B 83I ' 823 ' 952 < 2BB2 4¶ .=:<<2 ; 253 6 ' + K
?92+2 <+98 29B8 =29B32B:530 ' 0 " ' " 0 G4 '
% ' " 0 SG5:<=:5 4 58 B =29B32 .:53B2 95
' 2BB20 S93B ' E ' H 2 E 882 9I #29B320 8¶:9*
EB2 23 82 GB 82 253B2 4¶ B29A B:.=2B80 ' & '
' +0 " ' IL J ' $9 ' <B254 8: 5 4¶ 88:B3 B +28 E:*
+:53G83252 ; 253 2582 ; G+2 ?9¶2+28 52 =29B3253 <: 53
+28 9528 .:53B2 +28W93.280 ' 0 ' 50
"F" ' ' J ' ¶283 =29B32B 42 + ' 3G32 .:53B2 + ' ; 9*
B ++20 .¶283 82 =29B32B + ' 3G32 .:53B2 95 ; 9B0 ?92
42 E:9+: B +9 ' <2B89 428 ?92+?92 .=:820 82 4 3 4¶95
=: ; ; 5 3BG8*4 _. +2 ' <2B89 42B ' ILN6 3 :9+ GB

M ' O -$ 2 ' 1 ' E ' . # J1 '
- ' E ' 1$' ,1$' ' ' $ 42' 1$' '
? .'1 'E ' '2' 1 & '# 'I' ' I $2
4 'E 'M:. ' 1 'JE ' : $'
1$ 'JE [1 ' '< $ '2'M ' o '
' ' 1 ')$2 M1 '2 $ I 2 2 ? $ I
B: $ 4 'E J $ (J ' ' f M '
0 = ' $ ' ' M ,)
' '2' 1 ' .: 'M $ 1' J1MM ' $ 1' ' $'
2 'M $ ' 'O$<' ; '$' 1 '2 ' 1 M^
21Q ' 1 ' 1 ' . ' M1Q 12J ' 1 '2'
$ 1 . ' 'O$<' ' 'E ' !'2' 1 ' .$ '
.$'. '? ?? : ' ? $ JE ' .: '< . 'M 2)
.$ ' 'O$<' ' :Q ' ? : 'E '!'2' 1 ' .$'
.: ' 1 ' I E 4$2 ? $2 : ' 4 1$ '
? ' .:$ 1< ' 1 ' J I1$' .: $2 '$,1 M ^
$1 ' ' $ 41' ' 1 ? ' '.$' 2 '? '
M $'? :$2 :Q '? : 'E '!'2' 1 ' '1 'J'
? :1 'I $2 Q 1 .' ,$ M $ I' T 'T3 '
E 3' ' ' 'J ' ? ?? 'JE1 '
O$2 ' : 'E . 'J ' '2' 42 ' _2 $? $ M)
JE '2 ' $' 'E ' J' ? $2 : 1$' .'
2 M$E 'k E2 / # ' JE' #$ I' &@
,'2' $ J' ' ' 1' M. '?: 2 # . '
2 $' I '2' 1 . 1 . ' $. $2' '
E 'J I1 ' ' , ' ,1 J ' .'
2$ ' ' #)M.M ' ' ' ' ."' $I
' O$<' ' UB $ B M JE' !' . 1 ' E ' !'
JE ? ' ' 'J1 ' 1 '2 ' $ J$ ' .'2' 2$^
<$1 ' ' / ' 3' 'O$<' '2' ' '2'
2$. 'E ' '.$'. 'J1 2 . ' #^
$1 '? $ M ' ' 1 1 $ $1 'J1 '
1 '4 ? ' ' J1 ' ' 'J41? 2: '
$ ' .M '2'. ' .'2 J' E I # 'E $ @)
' ' $I 6C $ JE J ' . ' 1' ,$. I K '
'4 $21 ' M. . '2 ' $ ' 'E ' $ '
2 PP 2 'w' 'WH O$<' 'J1 $ ' .. #
E1MM ' 'E ' ' 1 '1JJ $1' ' _$ J1 '
2 'M$ ' 1' 1 I1$' : 'E . ' o '$
' ?' A.< $ ' '.$'. ' ' 1 ' : JE '
!Y ; $. J$ # J1 $2 ' . ' 1$)M.M k'
.: '11 '14 . ,$ 'E ' !' J '? :$2 $M '# ' I'
1 .:E $ 'E ' ' : M 21$' 2 ' 'J' '
:1 ' .$' : E
-'(' J 3' 82' =29B32B253' 23' 42' . :B' 23' 42' < 8'
H<< 3B 52I0' 2 ' '= ' 0' <' &NC' B: 8' : 8' H +I0'
+2' =29B32' H< ?92' 8: 5' . =2E +@0' ' 3' +28' 8 9 ' ; 2598''
#: 52' < *N ' 'A9 6' 8' #29B32' +2' G 250' 8' ?9 ' . 5*
.2+20' 0 "'E'))A' 2+2' < 33' H2+2I' 283' 420' 8 '
H8' $!' =9 8843' =9B340' ' ' ' '95' JB 53' BGB2'
H +@ 8 283' =9B32M0' B2B2' . =23' 393' B2E2B828' = ' '
' +:38' + 'G9B3253' 23' 42G 32530' 3 3:98' @:B8' !' +'
82' . : ; G 32530' '< ' N7"7' 58' . : ; ; 2' 5:98' 25'
+ :58' !' < 4'23' !' . =2E +0' 952' JB 53' B:932' 42' 9B8' 53'
=9B32B' !' 5:980' 23' ; 2' <:B34B253' !' 32BB2' 3: 5E' M'
:53' + E 53' 58' ?92' 5:3B2' 52' =9B3 ' !' 952' ?9292'
42' 8 G+:5' ?9' 283: 3' 25' + ' ; 2B0' 5' F ' L A E6' ' 3'
. : ; ; 2' +28' . = 2580' ?9 53' + :253' H253254253I' =9B34B0'
+' G 253' 3 53:830' '> ' 2?92' ! :53 9'
. :5025. :B' <+98' . :BB: . 2M '+2' G:93 '3252 ; 2530' ?9 +
+' 83' 9+32B' 42' + '32832' . :53B2' 952' < B: MP' <B48' +2K
?92' 9+32 ; 253 059 3 0' 9+3 B2' @LAE68' 2' =9B3: 3'
JB 548' . :9<8' !' =9 8' :9' 9' 25283B28' 42' + ' . = ; *
GB20' 88' B0' 0' ' 2' G:5' 82BE 329B0' 8 58' 2 B: '
52' GB9 30' E 53' =29B32B' !' + ' <:B320' 23' 9' =29B32B' ?9 +
8 + :5' +2' . :55933 53:830' \ ' ' . , / 77/ 'E0' AE 68'
#29B32M0' 23' + ' <:B32' E:98' 82B ' :9E2B320' ' 58+ 3'
NFN' 2' ?9:R' +29B' <B: 32* + 42' =29B32B' . :53B2'
B:2^' 'G' FFN' :9B' E: B' =29B32' 49' < 24' . :53B2' +2'
829 + 42' 8:5' =9 80' ' "C"' ' ; 8:5' 56283' < 8'
.+:82' !' <2B8:552' ?9 'Q' =29B320' ' 50' ' $9 + 82'
8:9E 2552' ?9 ' 283<2B +29A' 42' =29B32B' . :53B2' + 9*
B29B' B 5?: 820' + ?92+2' <:9B3 53' 8 28. :9+2B '2:94 50'
940' NFN' 2' +2' G29B3 ' 9' E 8 J2' E2.' 8:5' 28.9' 8'
B942 ; 253' ?9 + +2' 2 3' 3B2G9. =2B0'
B:< 3:83' =29B32' !' + '<:B32' ?9 ' ; 9+E R828' 5<9E2+28'
<<:B320' '<' "NN' # B4 ; 253' =29B32' !' + '<:B32'
?9 ' G:5528' 5:9E2+28' <<:B320'
'# $ 'G1 < $<' $' , Q 4 ' 1)
I J' $ ' $ 2' ' $ 2 ' . $ E <2'
1'E ' : ' $ [2 'M1 '< M $? ,$ '
.., ' '2 ' I$ # .$ $ J I$ ' ' . 'M1 '
1M ' 1 'J #)J$. 'J #) !' '21 ' : . Q)
M121<$' ' $< 1 . ' JE 2 ' $. $? '2' 6$M Q
E> . E 41 ' 'JE1J . :1 ' 4 ' , ' E
' ; A 'OE),7 ' '"' ' M'.E 42 1 '
' .$'. ' 1 # .: [
'# ' ' ' '2' ' . : . M$ J
; A A' 0E) 1$ 7 ' 'P'$
.: .' 1 D$ # 'J' ' .$ 'M
'KH J$ M ,$< 'E$. ' !'2 ? 2 '1')
JE $'2 'M ' .: ' 1 'C ',$' 'E)
1$' . '< .: 1 '9 "#' '<" ' ' ' +

'C$E 'M14$2 '? .' I2 ' , Q? ' ' ' '
!' M' .: $2 $ 'C$. ' . ' 41$' ? $ M 1E'
? '2 ' 1 ' . ' : ,, ' ' : .1MM < '2' I .)
M ' . '< 4$1 ' .: ' '4 $ ' ' 1$' . '41$' 1 '
. '2' J 2 1 ' 1 ' M . E '2 ' $. ' . ')
I $' '4 $' ' .'2 ' J 2' ' " M' . 'J1 ^
J $1 'C$ J' . ' ' J 2. ' . '2' ' $2 .:
1 1 ' . '2 '4 ' .: ' '1 'J1JE.
" M'. ' 1 ' 'JE . 'O J 'I $J 2 ' .: '
J2 J '2 ? 2 '2 ' 1 ' I$ ' : Q
S' # ' ,
, ; '0E ,$)[-7 ' ' M' . 'M $ 'C$ 1
.: ' 1M '$2 ' ' '41$' ' ,, J 2 ',1 M' .: '
412 'JQ2$. $? . ' . ' ' 'E '< $'
.: ' 1 '? $2 $ ' ! . ' ' <' J $'
21 ? : 2 'M1 ' . '2 'J1 ' . '2 ' 1M
'' ' ; 12 . $ 7 ' $ ' . (.
$2 Q' . ' : J$ ' , $, '? $ $< $,$'
4 41 '? $ ' $' ' .1 . ' M^
2 $1 ' . ' ,1 M 2 '< , ' . '2 'M $
L ; '0E.) I:7 ' ' X1M 'G 'X1 M .$
. ' 1JE 'J . ' 1 ' '1E' 2 ' .JE '
1 $I '2 'J 4
. ' 0.) I.7 ' ' M'. '41 $? ' ^
4 ' . ' : M $? 'M. $.$1 2 '? $ 1. $'2' _1 ^
JE1 J / ' ,4 ' " ' *
= ' " ' / A' 'K , , ' E1)
4$. ' 0I1Q' 6 G
' ' 6' ' / ' 1M .1 ; .' !' J ' 4 ' '2 '
$.$<. ' . 'C
,' * # ## ' 0.) I .)D :7 ' M' M' . 'JEM '
, $ ' . . J1 I ' . '2 ' 1. $ ' . '2 ' . $ $2 ^
$1 ' . ' J 1 JE1 J
-' (! ' A '
, ' ; ' . ['? $ $< $,$ ' $#
i $. '< 1' 0I1Q' $#7
, ; X ; '0.)<[ )6),7 . ' M'. [11]
21<$' c $' $# . $ '1' $< $21 'P ' .$. 1.1 '
E # J E 1$ 1 B' M4 Q1 'E J E 1 1 '
J12 # M4 Q1 ' . 'J $ ' .M 1. ' 'J 12.
'# $ ' 7 ' ' f I 1 . $ '
, ; _A ' 0.)<#)61) .:7 ' ' ' H M'.
M $? ' _J$ ' M ' !' $# J1 . ' ' .'
M 'E # J1 . ' 'K'P:$ I 2 ' .$' 1 ^
.:E $ $#
' ' 7 ' ' 11 .
, ; _P '0.)<[ ) $)6 7 1. c $ ' $# 1
D $ 'E # JQJ2
' 7 'N3' A4A : .0' .2B. +20' B:920'
` _P '04)<[ ) .)6 $) :7 ' 6' M
. ' [1121<$ ' c $ ' $# .1$< '1 ' $# Q1 ' #)
< 1$ ' J 1$(
' ' (! ' 7 ' ' 1> J . 1$<
G A '0!)<)!). :7 6' M' . '<.1M.)
$ 'c $ ' $# $! J(C $ M 'E # . . ' ' _1 '
.< 2$ ' !' $# , J . 'JE ? ' , J' ' 'J .
' ' 7 '23' + .2
L ' # 1 '$04)<$.). $)6:7 6' c $ '
1 ' ! :E # .
, ' * # . / # #54 :' 04)<[ ).)M!) 1 7 + ' +$' _1M)
M $ ' '2 ' M$ 'JE $ ' . '2 'N . ' '
2 ' $# M$ '1 ' . '2 1 . $1 'P:,$! .M. 1 '
. ' $$0'G $2
'# $ 'P ' 7 ' . '< J .
' $# '),$, 1 ' 7 '? :1 ' 1 I '
$M $M. ' 1$J$ # .: ' : . Q$ 121<$ J1MM'
* 'M $' * ' ' ,1 ' M 21Q. '
1 ' 'Q 1 JE ' '2$ '? ' 7
M 21Q. ' . 'J1 $<.
L ; N X P P ' 0.)<[ )<1)E 2) 7 6'
c $ ' 1 ' !' :E # <1 ' $' E # <1 2'
O$< 'E # <1 2 ' ' 2 ' .$' .: ' 12$. ' .1 '2 '
4 ' 'E # <1 ' CQ M$. 'E # <1 2 'C $)
M 'E # <1 #' ' M' . 'M$. 21<$ ' _$ #
E # <1 #J 2 ' $ M $? ' Q ' 1 ' 4 '
'E # <1 'c 2? ' ' . 'J '1,.J 'U.
2 ' $' . ' 1 J1 M ? $ ' I J 'J)
$ ' $1 '2 'J $(2$ $1 ' . < 2$. ' 'E # ^
<1 2 ' . 'JE J ' . J 2 ' . ' $< '? $ J1)
I $ '2 'I . M ,#94 ' ' . " ' # $ 1
; N X '0.)<[ )<1) :7 ' '& 6' M' ! '
< 1M. $ ' c $ ' $# <2 ' ' $# _ . 'U' K" # '
' $ ' J1M 1 . ' . $# <2 ' . ' $# J.
Q ; # <1 ' . < 2$ J 2 $ .1 ' 1 (2 'J . ' 1 '
.< # $ $? '2 ' <2 'P' JE ' . ' 4 $2 '
. $ ' 4 'M . '$2 Q' 'M$2 ' '? : '
1 .:E $ 'JE J ' . : 2 'U 4 $2 $,1 M ' J '
<1 ' $ # J M '2 ' M$. ' ,1$ '? '2 '
. M$. 8 , ; ' - ' ' . : ' ' , ' /
2 2 ' . ' 4 $2 J 'E # <1 ' ' I _ $
' . M$. 'M ' ,1 M$ ' ' I ' . ' 2 '
J ' : E1 $ M1 ' : . M$ $1 'J? ' ,$<
1 ' <.1M. ,$? ' ' 1 ' . < 2$. '? : 2 ' 1

< B +3' 23' ?9 2+2' 283' 25' 2 23' 4 58' + ' 8<4.9+ :50'
5 283' . '?9 95' B489# 3' ; 4. 5 ?92' 23' 882M ; < B*
3 0' <<' (' 7#' ' - ' " ' - 'L 2B ; 2' 42'
:B3 . 3 :5' 9EB J2' . : ; <:84' 42' 8 A' G 83 :58
'K '23' R R:^0' 5J+2
3' # S ! ! 'Q4*JM *JB * ; /0' A' 5'L ' 2B ; 2'
4 4 .3 ?92' 882 ; G+ J2' 42' 8 A' +233B28' :9' . .*
34B28' 6' 2B ; 2' 42' ; 3=4 ; 3 ?92' #2A J ; ; 2'
; R83 ?920' 5: ; ' 4 95' .2B3 50' 3=2:B4 ; 2' 42' 8. +
*8' 95' G2A JB ; ; 2' 283' 58.B 3' 4 58' 952' 82.3 :5'
. :5 ?920' +28' <: 538' 42' B25. :53B2' 428' .M328' :<<:848'
08:53' 25' J52' 4B: 38
-' (! ' K '23' (<4Q? W0 +233B2' 4 58' +2' <B2K
; 2B' 82580' + J52' 4 58' +2' 429A 4 ; 2
3' # S ('Q4*' *@ *5 /0' " ; ' 2B ; 8' " 'G23 *
5 ?98' $9' '8 A' < 83 +8
-' (! ' K B '23' 2 ; 2+20' < 83 +
'# S ('Q4*JM *@ *5 2/0' @' ' 2B_2' 44' G:*
3 5 ?92' + 882' . : ; <B25 53' +28' <+ 5328' ?9 ' :53' 8 A'
< 83 +8
S ! 'Q2*JM * ; 4*3B /0' " ; ' " O42' E2B6'
8 . 3 :?' JB2. ?92' 23+ 3 ?2' $9' '8 A' < 2483L 58'
95' 82588<2. + ?9' ' 3' <B28?92' 4 8< B 3B2' 93B20'
2B8' G2A ; 43B20' E2B8' JB2.' :9' + '3 5' . : ; <:84' 42' 8 A'
< 2480' 28' ?9 3B2' <B2 ; 2B8' 43 53' 4 .+R+28' :9' 8<:5*
4428' 54 2B2 ; ; 2530' 2. 5?9 2 ; 2' 23 53' 95' 4 .3R+40'
23+2' 8 A 2 ; 2' 95' 8<:5442' 3' .2B3 52 ; 253' 3:98' .29A'
?9 ' :53' B2<B 8' . 32' 4 E: B' . : ; ; 2524' 828' 55 +28'
< B' 95' E8B8' G2A ; 43B2' 'A# ' . !# ' ' # - (!'
/ '& 7 # ' . '3' 50' < 'C 80' 439 8'
<:9 ' @' ' 5' G2A ; 43B2' 'L B' G98' #2A *
; 43B20' E2B8' : 5' 8' ?9 ' ' 8 A' < 248' 42' 429A' 8R+*
+ G28' . = .950' 2 283' ; 2A 54B 5' < ; 8' B . :53 '828'
; +G29B29A' ; :9B8' <' ; 43B28' ?9 '5 43 253' 5 '3B:<
+:5J8' 5 '3B:<' . :9B38' A' 8R+ G28' < B' E4B8' ; : 2*
; 253' BB 5J428' 2' 89 E 253' E2.' B3' 23' 82 ; G+ 253'
54J J428' 2' B=R3G ; 2' 25' 283' . +20' + 283' ; 4+:*
4 29A0' =2A ; 43B2' 283' <+98' G2 90' ; 8' < B : 8' 25*
59R29 0' '6 ' ,#! ' - #
' <*B # ! '42' 2^0' 8 A0' 23' <2 <:E0' ; 289B2'
'# S 'Q4*JM 5"B0/0' " ; ' 2B ; 8' 42' G:3 K
5 ?92' $9' '8 A' 43 ; 528
-' (! ' K B 0 ' E3 <0' E <4 P0' ; " 20' 43 ; 52
? (# ! ,* 'Q4*JM 5*4B 2/0' '8' 2B ; 2' 42' G:3 K
5 ?92' + 882' 49' 8R832 ; 8' 82A92+' 42' 9540' ?9 ' . : ; *
<B254' +28' <+ 5328' 4:53' :' 29B' '8 A' 43 ; 528
,H# S $ 'Q2*JM 5*4B *\/0' 4P' 2B ; 24 f'
G:3 5 ?92' $9' << B3 253' "' =2A 54B 2
3' # S 'Q2*JM *<4*3 * / :33' # S *
0' 'Q4*JM *<4*3 *+40' 42/0' " ; ' 2B ; 2' 42' G:K
3 5 ?92' $9' '8 A' <23 +28' :B: 2' G2M <43 +2
'K B '23' "
3' # S # ('Q4*JM * * /0' " ; ' 2B ; 2' 42' G:+ *
5 ?92' $9' '8 A' :9 ++28' :9' :+ :+28' + .2' G2A *
<=R+2
-' (! 0 K B '23')MS' A0' 29 ++2
S 'Q4*JM *<+/0' ' ' 9EB J2' <9G+
< B' B J4520' . :5325 930' 25' 8 A' . :+:5528' 0' 8 A' 2BK
8 :58' JB2. ?928' 49' 32A32' =4GB29' 42' + ' G+2' P' + 'E2BK
8 :5' 448' 2<3 5320' .2 28' 4 ?9 + 0' 42' =4:4:3 :50'
42' R ; ; ?920' 952' E2B8 :5' 3B:9 42' "' >4B . =:' 23' 952'
"' . : < : + 8
-' (! ' D a A3S 0' 42' +R S:9 0' 82A39<+20' 42' 0'
8 A0' 23' 5S4: P0' ?9 '8 J5 2<+ 4' '?9 ' '8 A' < D8' :9' .28
'# S 'Q4*JM *< :*4/0' " ; ' 2B ; 8' 42' S: : *
+:J 2' $9' '8 A' < 528' L @ ' ' : ; ' 4 95' JB:9<8'
4 582.328' <32B28
-' (! ' K B '23' 3: .0' 7 ! @ '< 24
'# S #' Q"'JM *<:6+/0' ' ' 2B ; 2' 4 G 8*
3: B2' :5 444B 3 :5' ?9 '82' . : ; <:8 3' 4 ' 8 'E +2 '
4:B+25528' 6
' ' 23' 34S ^0' E ++2
3' # S 'Q'JM *<34*B/0' " ; ' 2B ; 2' D4 = 8*
3: B2' 5 39B2+2' $9' 283' ; 95 ' 42' 8 A' +28
4 'K B '23' 338<:E0' +2
3' # S 'QM*JM *<3:*3 0' " ; ' 2B ; 2' 4:'J * ; *
; B2' + 3 52' ; :' =2A <3:320' :90' 89G83 53 E2 ; 25 '
=2A <3:320' 5: ; '?9 ' '8 A' . 8' :9' 32B ; 5 8:58' 4 D4*
B25328' 9' 8 5J9+ 2B' 28' JB ; ; B 258' + 3 58' .+ 253'
. : ; ; 2' =2A <3:32' 959A0' 7 - 7 '7 - '7 - 7 '7 - '7 - !
V' (! ' K '23' '?5' 3: ; G20' ?9 '182'
32B ; 520' 25' < B+ 53' 428' G: ; 8
3' # S 'Q2*JM *84*<* Y' " ; ' 2B ; 2' 42'
G:3 5 ?92" $9' 283' :B ; 4' 42' 8 A' 82 '28
-' (! ' D B '23' (
3' # S ! 'Q4*JM *8<4<* ; /0' " ; ' 2B ; 2' 42'
G:3 5 ?92' @L 9' B25 :B ; 2' 8 A' JB 528' B9 3' =2A *
8<2B ; 2
-' (! ' K B '23' JB 52
3' S $ 'Q *JA *83 *\/0' " ; ' 2B ; 8' 42' + 3*
34B 39B2' $9' 283' . : ; <:84' 42' 8 A' E2B8' < JB ; ; 2'
=2A 83 ?92g' 230' 89G83 5+ E2 ; 2530' 5' G2A 833?92
-' (! ' K '23' :E A230' 3 5J 220' *22B8

' #

2!A Y

'# S 'QN*JM *83:*;&/0 ";*' , - ' 42
M::+:J 2' $9' '8 A' 9.=28 :9'8 A' :B .28
-' (!'K B '23 G:9.=2
3'# S ('QN*JM *83*+&/0 ";' 2552 4& B*
.=32.39B2' :B3 ?92 =2A 8 R+20 <:B3 ?92 '8 A' .:*
+:5528 42 .2
' 'K B '23 B !'.<+:552
3'# S ('Q 2*JM *8 +*+ *G&/0 4@' 2B;8
42 JB ; ; B2' 9' 283 .:;<:83 42 8 A' 8R++ G28'
>L ' ' !:3 :9 E2B8 42 8 A' 8R++ G28
' 'K B '23
b@# S 'Q 2*JM:*4:5/0 8' ; ' 25B2 42 .:+':*
<3'B28 42 ! 4 J 'B
' 'D %0 8 A0 23 NF:920 4253
' ' ' '8:B32 4& 532 @2.3 :5 ?9' 2 <B ;2
3 5343 2B 320 3 5343 +28 <+29B8' # 0 = 0 = 0 .:; ;2
:98 E: !'G 3 0 ? ' -'- ' ' ;0 ' 3/2 JB .20
; :58 25.8@2 E:98 <B 2 42 ; 2 + 882B B B2P = 0 = 0 = 0
' ' ;0 ' ' '< 88 '42E 53 + ' ' =' ' 4 3
+ ' 0 E: ' 952 ; @ 9B42 ?9' '29 <:9B <+98 42
.253 ; ++2 c.98 42 5:8 = B428P + ' '82 B23:9 ;20
230 .: ; ;2 B+2?9 5' = 0 = 0 = 0 = 0 = 0 +9' 3*2++2 25
+9'B 53 9 52M0 E: +'.: ; ;2 :5 B <:54 9A :++280
8 E' V 7' ' B2 428 ='23 428 =:0 3' ; : J52B 95
JB 54' 43:552;253' LL : 53 42 = 0 <: 53 42 = 0 <: 53
42 8:9 B 5.20 4D:G83 .+2' ' ; 2552 L8 53 I 283 < B*
32P <: 53 42 ; 5'2 3B E J 532P <: 53 42 = 0 <: 53
42= 0952 ; .= 52 3:932 B4J+420 8 E' V 44.' VNFF
'' (!' 1M 1 .
3# $ 'Q* 5*3*\:5*\&/0 ";' 2B;8 42
.:5.=R+ :+:J 2' 2 4 3 42 ; :+98?928 4:53 +' .:*
?9 ++2 G E +E2 283 G ++ 532'QL ' ' ' 2.3 :5 42
&:B4B2 428 .:5.= GB28 39G9+ < +280 .: ; <B25 53
.29A 42 .28 5 ; 9A 4:53 +' .:?9 ++2 283 3B+8*G +*
+ 5320 49 ; : 58' &952 42 828 2A3B ; 348'
' 3'C - 'G ++ 530 23 (!-(& '.:5?92
'Q' *398&/0 ' 'LL ` 2B ; 8 42 E2B8 . K
3 :5 JB2.?92 23 + 3 52' 25.:53B2 42 E:R2++28'
$9 54 429A E:R2++28 82 B25.:53B 253 4 58 95 E2B80
&952 '+ ' 5 4&95 ; :30 & 93B2 9' .: ; ;25.2 ;253
49 ; :3 89 E 530 +'<B2 ; B2 52 .: ;<3 3 < 84 58
+ ' ;289B2 49 E2B80P .& 3 3 + 'B J+2 .=2M +28 :*
; 580 23 2+2 3 3 G2 9.:9< <+98 3B: 32 ?92 .=2M
+28 B2:8P ; 80 ?9 54 +28 <:2328 E 253 G28: 50
<:9B +' ;289B2 49 E2B80 42 .: ;<32B .2332 42B*
5 B2 8R++ G20 :5 4 8 3' & +8 + 8 253 95 = 398'
6 58 +'+ 5J92 B 5. 820 8:5 <B:49 3 < B +'
B25.:53B20 8 58 + 8 :5 <:88 G+20 42 429A E:R2++28
4:53 &952 5 3 95 ; :30 23 & 93B2 .: ; ;25.2 +2
; :3 89 E 53' 'R' '428 = 398 .=:?9 5380 + R 25
'4& JB G+28' :3B2 <: 8 2 ; 2 ; 2 < B +3 B 4 K
.9+2 89B .2 <: 53P :5 B2@2332'@& 'E9' ; :5 < B2
; ; :+ ' ' ;28 R29AP 23 :5 4 ; 23'@& 'E9' ; ' ; B2
; :+ 2 ' ;28 R29A0 ?9: ?92 D= 398 49 82.:54
E2B8 8:3 G2 9.:9< <+98 B 4 .9+20 "G ' 2330 4
! # 'VV ; B8 VCC ' 2 42EB 3*:5 < 8 4 B2 ?92
.&283 952 <9 B+3 0 23 8:9E253 95 4 93 .:53B B2 '
+'8 ; <+ .3'23 '+'5 +E23 '49 83R+20 ?92 +2 8:5
; 593 29A 40 E 3 B +28 = 398 4 58 +'<B:82 .: ; ;2
+2 <B 3 ?92 & GG '42 +' +2332B 2^ "'3=' :98 82B2M
G 25 828 42 8 E: B ?92 @& BB E '.'= 2B QE: +'95
B29A = 398 4:53 @2 E:98 42 ; 542 < B4:5n0 <' '
" '+ '0 %' 2 ; *= 3980 B25.:53B2 42 429A
E:R2++28 4 88 ;9 2 < B 952 + 8 :5P < B 2A2 ; <+20
+'@: 2 .+ 32 25 828 R29A 'LL 6 J' .952 3: 8'
95 :9 B J2'LL 54B: 3 4&952 < .2 42 3= 3B2 :5 +'
8. 52 B2832 E 42 'LL 532BB9<3 :5 4 58 952 J 5 *
+:J 2' '" :B5 4:55 '< B +28 5 3: ; 8328 '?92+*
?928 :9E2B39B28
-' !' '1! "'" '?("" (-' ' 0
$) I M1 .',$'.$ ' 'N1. & ' 1 1' .' '
I ' ?)B' '? 2? ' . 1$' '< . '2'J)
R `)1 M ? 2'E$ R .
.$$1' I' ': '2' M2 &J 2' .'
VN% 0 .1 '# 7#' '2$ ' 'E$
-'8*H' / 0&>8' 0 + '# 398 8 J5+ 20 25
+ 3 50 G ++2 ; 253' 9 ; B8 8 '4:52 29 B 8:5 42
4 B2 ?92 .28 429A ; :38 3 253 8R5:5R ; 28' '829+2
4 B25.200 &283 ?9& 9@:5B4&G9' = 398 283 <+98 25
98 J2 ?92 G ++2 ; 253
' ' 3'& 7 '42 & # ' 3B2 G 530 < B.2
?92 +'G:9.=2 8& :9EB2 3:58 6 7
'# 'Q*G2B*5 *\ /0 8' ' 2B ; 2 42
G:3 5 ?92' :932< B3 2 82BE 53 '25E2+:<<2B+28 @29*
528 <:98828 23 '+28 J B 53 B 49 B: 4
' ' 3' & (7 7 '.:583B9.3 :5 <:9B
B= E2B0 42 & # 'QE:R' 9 @
# 0 'Q*G B*5 +0 5 * /0 Q 4@' 2B ; 2
4&= 83: B2 5 39B2+2' $9'^' + 29 <254 53 = E2B' 2
B2<:8 = G2B5 + 428 <+ 5328' LL 2B ; 2 42 G:3 5 ?92'
9' +29B 3 25 = E2B
'' 'P 'E$4 I$ 2$' <C" ' .. . 7&
1 $I ' . 'E$4 & ? $ $ ' ' 2.I ' 0I1Q

9 @' 83*.2 '& #- '?9& + 93 B <<:B32B &)'
#- 7'5: ;'4:55 0 25 9<= 5 0 9A <:B28 5 8 9
; : 8 4&:23:GB2^
j'# 0 'Q*G B*5 50 5 5*3&/0 ";'
2B ; 2 42 M::+:J 2' 5 ; 9A = G2B5 5380 5 ; 9A
?9' < 88253 952 < B3 2 42 93: ; 52 23 &= E2B 4 58
95 3 3 4&25J:9B4 882 ; 253 23 42 + 3= BJ 2 4&: '+8
52 8:B3253 ?9& ' &253B 2 49 <B 532 ; <8
' 'K #- #
'# 'Q*G2B*5 *8 :5/0 ' ' 2B ; 2 42
M::+:J 2' 5J:9B4 882 ; 253 :9 8: ; ; 2 + 4&= E2B 4'
.2B3 58 5 ; 9A' - -
-' (!'K #- #
/,# 'Q*G B*5 /0:'5 2B ; 2 42 M::+:J 2'
3B2 4 58 95 3 34&25J:9B4 882 ; 253 <254 53 &= E2B
-'S ?' 3' & # '40(("' 6-."'D.*8' !'
9 @
3'# 'Q*G B*5 2/0 ' ' 582.32 4:53 +'
.=25 ++2 283 3B 8*59 8 G+2 9A BGB28 B9 3 2B8
'?* * 8 'Q*G *88 2/0 8' ' ' ;' 4&952
3B G9 42 +' ; ++2 428 ; +E . 28
'# 'Q*G *8\98&/0 8' ;' 2B ; 2 42 G:3 K
5 ?92' : ;'8. 253 ?92 49 J25B2 \23 ; 2 Q ; +E *
.228/' 5 R 4 83 5J92 R& (7' ! (&7' 04 3
JB 52 42 ; 982 :9 JB 58 ; 98?9 20 ; GB2332 23
J9 ; 9E2 E2+:93 2P R& (7' '+' 4 3 .:*
3:55 2B 42 # =:30 G: 8 42 +:30 =: 8 8 29A0 G: 8
'+ 90 G: 8 + J2P R& (7' # (7 '+' 5: ; ; '
988' J9 ; 9E2 B:R +8 23 +3= 2 0 ?9& + 52 93 < 8
.:5 :54B2 E2.' +'J9 ; 9E2 : .5 +2 Q ; +E . 28/
<<2+ 2 2J +2 ; 253 +3= 2 P .23 = G 8.980 \23 ; 2
428 @ B4 58 42 .2B3 58 9329B80 <:B32 25.:B2 +28
5: ; 8 E9+J B28 42 J9 ; 9E2 25 BGB20 ; 9E2 B:R +2
23 ; 9E2 25 BGB20 : R& (7' 7)'
' '+' 29B <= ; 2B2 25 283 G+ 5.=2 +2 ; 3 50
B:82 ' ; 4 0 <:5.2 9 +2 8: BP 25 5 R& (7'#! '
- - '+' 4 3 B:82 42 = 52 ' +29B8 B:9J28
' 3'& (7 3 JB2.0 +:A:.
'Q= *G:9/0 ' ' LL 0 58 +2 + 5'J2
.: ; ; 950 : 82 9 42 <B: 2 5:.39B52' &95 H J+2>
@9B ' : '42 B: 0 & 93B2 : '42 = G:90 $9& +8 52 82
J:G2B 9253 +29B8 <2338 <29 5' 0<B:90 ' '
' 0 VF' 5 G 33 3 95 < 5 <:9B 8:5 53 ?9 3 0
29A < + 8 4&95 = G:90 3B 832 23 8: ; GB2 B23B 32
2 : 82 9 ?9& 3B:<:8 <B254 <:9B 8:5 532B<B2380
" 'G' O '7' # 2B 9 8: B 5:98 E 5 ; 28 .'J 8
.: ; ; 2 428 < 58:58P 5:98 R E25:58 5@:9B40=9'
<+98 3B 8328 ?92 428 = G:9A0 'D (& ' " '
@ -=7 ' .=' CF' 93B2 : 8 95 = G:90 :B ; '
< B +'5 39B2 :9B 9 B 83B2 49 @:9B 9 :54 42 8'
; 89B20 88 '42 8 'B23B 320 293 +2 <B:@23 = B4' 2
E: B .: ; ; 253 283 3 +2 8:+2 + ' ; 4 0 9 '+'
"#' ' !"" ' 2 3:98 +28 = G:9A0 /2 JB 54*492 283
+2 829+ ?92' :5 4 82 B2 95 5 40 23 .&283 988' 42
3:98 .2+9' ?9' 283 +2 ; : 58 : 82 9 42 59 30 <9 8?9& +
E: 3 882M :+ B 25 <+2 5 @: 9B <:9B E:+2B 23 9 B ' 42
JB 5428 4 83 5.280 '3'A 0 <' YB' '89G*
3+3 'B 8:55 2 428 = G:9A ?9 8 E253 ; 5 J2B +29B
<B:E 8 :5 42 8:9B 8 25 +29B .:9< 53 +2' < 3328 <:9B
+28 2 ; < .G2B 42 9 B H ++98 :5 '+' G+2 42 +' :5K
3 520 S 0 70 : +2 .2+'283 4 3 .: ; ;2 EB I0 ' ('
-! ' - - '3'E0 <' 86'LL J'>& 'E9 4 58 ; 'E 2 G 25
428 = G:9A 82 .B: B2 J+280 '+ ' ">?#/ - '
W @ 5E'VCN ' :98 328 95 J+2 25 2B ; '4 580 952
JB 542 . J20 95 J+2 J B4 ' < B 428 = G:9A0 5'
+ 'C # -" '3:' :93 VCNC' 2 8253 H.2B3 58 .B 3 K
?928 42 53 *! .= E2+I 428 = G:9A : 25828 49
JB 54 @:9BP 23 ; +=29B2982 ; 253 + R' '3B:< 42 .28
= G:9A 4 58 +2 ; :5420 "' 2330 7'#!'" '0#7 '
'D ' :.3'VC" /' ' 'E 3 829+ .: ; ; 2 95 = G:90
+ E 3 4 58 +' 8:+3942 0 4 58 952 B23B 32 5:B:82"
' &283 952 B23B 32 42 = G:9A0 5 5 4 42 = G:9A0
82 4 3 4&952 E 2 +2 ; 89B2 5= G 3 2'LL J' &283 " 5
= G:90 82 4 3 4&95 = : ; 2 ; + 5.:+?92 23 ?9' 9 3
+ '8:. 3 ' + E 8*39 8'3 B40 .= 3 ; 532' ! B 52^'
E 8*39 3: * ; 2 ' =29B2 ?9& + 2830 = G:9*' $
C7 '50 '>2 89 8 = G:90 @2' E:92P ; 8 @2 52
+ 882 < 8 ?92 42 ; & J R2B ?92+?92 : 8 4 58 ; :5
3B:90 '+ ' '"?#/ - ' 'EB'VCNF' LL 5 4 3
988' 25 .2 8258 ' + 3+2 = G:9' ;K" 58 +2 + 5 28
J J2 42 +'M::+:J 20 5: ;' .: ; ; 95 428 : 82 9A 42
5 93 42 + ' ; +2 428 83B J 4 8 'LL 5'< B3 .9+ 2B20 +2
J25B2 = G:90 ! 7 '?9'82 4 83 5'2'< B 828 JB23328
42 <+9 ; 28P + ' .: ; <B294 +2 = G:9 .: ; ; 950 ! 7'
(! 7- ' ' :9 ; :R25 4920 23 +2 = G:9 '
JB23328 :3 !8 # (& ! ' "9 ' 'JB 542 .=2*
E .=2' 2 . B .3 B2 4 83 5.3 '42 .28 429A J25B28
H= G:9 23 .=:92332I0 .&283 ?92 3:98 +28 = G:9A :53
429A JB23328 42 <+9 ; 28 25 :B ; 2 4&:B2 +28 4B: 328
42 .= ?92 .N3 '42 +'3 320 3 54 8 ?92 +28 .=:923328
:53 +'3 32 BB:54 20 8 58 JB23328 23 8 58 9.9528
<+9 ; 28 <B: ; 5253280 %%' '+' 90'-' V 6'
00QF6 5 <<+ ?92 25.:B20 5:5 8. 253 +?92 ; 2530 +2

5: ;'42 = G:9 9 JB 54*4920 1,1' , " , ' '
:9 JB 54 = G:9P 9 49:'42 BJ 5 20 1,1' / '
, ' ' ' JB 54 = G:9 '.: ; 28P 9 1,1'
* " , ' 9 $' :9 JB 54 = G:9P 25 5 9
4* , ' * , '8'@' ! ' '= G:9 + .3
-' ! '# G:9A0 9 <+9B 2+0 8& .B 3 < B 95 3 54 8
?9&:5 .B 3 :980 + .:980 3B:980 23.'< B 952 ' +
82B 3 ; 29A 4&2:B B2 95 :B ; 2 ; 253 < B '3:98 .28
; :38 82 ; G+ G+28
'6 'S 6 8' 5 52 <293 B2 42 = G:9 28< B*
E 2B0 9
' 2 < B 3 3B2 952 :5 : ; 3:<22' 2<25*
4 53 .: ; < B2M +2 J255 5 ?92' 5.'= 93* ++2 ; '
=93.:P 5J+:*8 'K P
'Q \P ; 80 G 25 ?92 3 52 8:3 < 8 8< B 20 :5
5& + 42 < 8 H' ; 923 42 & B3 .+2/0 8' 2B ; 2 ; 0
+ 2B' 2 5.294 :9 +'<B 5.< +2 4 .9+3 '4&952 K
B2' : +'+2 = 2' +8 :53 .:559 ; :5 55:.25.20 +8
; &:53 B2 ; 8 25 + G2B3 ':9 0 ; 8 B <+ ?9 *3*+0
E:98:53* +8 B28339 'E:8 2 238^ :&283 +'+2 = 20 '
> '2 '* ' I
' ' 3' ' .0 2&283* *4 B2 ' ' , '
'+ '283 +'?9283 :5' 58 5.25 B 5? 8 :5
8&283 82BE' 42 ' + '<:98 4 B2 = : ; 2 23 +'
2 ; ; 2 ' 'JB ; B2 = 2 ' '=2.' ..:9<+20 ! 8 5 K
39B2 ; + 4 3 +' .:<+20 $9 53 = 2 23 = 2@: J5253 25K
82 ; G+2 H + 8& J 3 42 8:4: ; 2@' '# = '0 0
4 58
b'# 'Q= *\ B/0 ' ' 82 9 42 +'JB:8829B
4&952 < 20 ?9&:5 ; 23 9 B 5J 428 : 82 9A 42 B E 2B20
< B.2 ?9& + +28 B2?92532023 ?9'283 .: ; ; 95 4 58 +2
5 4
j'# ' ' 'Q= *\ *3595\&/' 2B ; 2 42 <B 3 K
?92 23 42 + 5J J2 ; + 2B' 58 4 +
' ' 3' ' .0 23 , *' ; 5325 53
,'# ('Q*\:*B /0 ' 2B ; 2 42 G:3 5 ?92'
:B32 4& BGB2P .&283 95 5:R2B 4& ; 2B ?920 * 4 '
1' ' ; 253 . 28 @9J+ 54 28' ,
'Q*4 +*J:/0 ' ' 3B2 428 5:G+28 28* 3
< J5:+8 ?9' 82 <B232<4253 428.25498 4& 5. 2552
B .2 .=B 3 25520 8 58 ; + 5J2 42 8 5J @9 ' :90
; 9B2' 28 = 4 +J:8' @ D
' 8< J5' '=3@:0 +8 QE:R < /0
23 42 ' '?92+?92 .=:82 ('B <:54 53 '
5.25 B 5. 8 +, ' ,+, '42 ; ;2B 4 . + ?92
,*, 5' ' +8 42 ?92+?92 .=:820 42 G:552 ; 8:5
,'# ' 'Q= *429B/0 ' ' 5.25 ; :3 :B3 5 *
.288 B2' 3 3 42 .2 ?9'283 = 429A' ' ; :B3 4 88 *
; 9+ 3 8' .20 656'3B:98 <B: :53:0 9 52M . ; B40
:53 +'= 429B B ++2982 2 .2 28 .= ; B28 49 . 5*
.=2 ; B0 ' ' ,7 '* '1 ' '
1 ,7'<'
'6 ' B ' $9 54 +28J9 B42 3 8 +2 = 5 <
3:93 2539B0 'E 3+2 E 5 8'3B:9G+2 ?9& + 25 :93 JB 54
= 849B 0 9 ' ' 'V %'LLA 96 8' B JB 53 = K
429B 93 8:93 ++ 20 3 2+2 283: 3 253:B3 ++22 # 429*
W2 ; 253 4&952 3: ++20 '< ' V"7'LLAE6 8' 5'8'
JB 53 2 B:+ 23 32+2 <29B 23 = 429B +28 <B 3 J252B +2*
; 253 ?92 0 '0 0 V 'LLAE 6 8' '+ 5J92
8&25 +20 25 8:B32 ?9&2+2 52 <293 42 ; 29B2B 25 + ' ',
G:9.=20 58 8:B3 42=:B8 E2.'952 JB 542 = 429B0
.# #'OO '""
' 2 <B ; 3 '283 5.25 ? ?9'8 J5 *
3 B R29B ' ! :9+3 283 +' .+2B8 25 JB 53 B2:9B0
! :9+3 'JB 53 = 42 23 JB 53 <2:9B0 " ' 'A '
2M .:5@2.39B2 ?92 .2 ; :3 E 2530 42 5.25 = 93 b
++2 ; 54 '=:BB29BP 42 + '8:B32 3 82B 3 4*
E253 420 @58'?92 '?9 54 2+2 82 B25.:53B2P . B
:B3 = :J< <=2 '23 , '82 3B:9E2' & 93B28
@:53 <258 ' + ' ,7 E25 3 49 + 3 5 " , '
= B880 0 4&:4 82 82B 3 4 J J '95 85G83 53 '
:9 A ' .2+'283 <:88 G+2 23 .:5 :B ; 2 9A 5 +:K
J 28P .2 ?9' <<9 2 .233 ' :< 5 :50 .&283 '?9&:5
3B:9E2 4 58 95 32A32 49 A56 8 .+2'
! 'Q= *424*M2* ; 5/0 / &958
; 5 2B2 = 42982' ++2 283 = 42982 ; 253 4 +J9B 2'
9A .B 58 42 828 .:9B8 2B8 = 42982 ; 253 3B 5 20
'- ' ' '5 0 %
-# 'O I'8' 5 93B2 59 3 <BG80 82 = 83: B2
52 ; 253' 28.2542 958 :B J28 42 42E2B8 :. 42530 5
:83 98 BB 8 58 .=2 + H3: ; G I = 4:982 ; 2530 '
'& ' '%"7' O I'8' ' < +8 53 8&25 9 2530 5&+
:53 BB2832 ; 2530 53B '8:53 25 + 'E +20 .B 53 = K
42982 ; 2530 ' , ' '# 1'A0 && 'LLAE 6 8' ++2 = 9B+2
:B3 = 42982 ; 2530 'A ,
))' ' , '+2 89 +A2
S0 'Q= *4240 42 +*M&/0 6' :B ; 2 '
2A. 8 3B 8*4 8 JB G+2 'E: B' 52 .=:82 = 42982
'E: B' 52 2 ; ; 2 = 42982' 28 = : ; ; 28 = 429A
8:B3 53 42 G:9J28 5 2.38' = ?92 583 53 ; &283 95
@:9B0 3:93 :G@23 ; &283 = 429A0 ' ' ; 0
"' :98 +' J9B2 42 +' ; :B3 ?9'E:98 < B 3 8' = K
429820 + > 898* =B 830 E:98 <<:B32 8' '8:5

B:R 9 ; 2 + ' + . 3 ' 32 ; 2 8 ' ' ' # P5 '
' - ' "7'@ 75 7# '@ ';! 7# '@ '+28 < 248 428
.=2E 9A .2332 B2 58 :9+22 ' 3 42 8:5 .:B<8 = *
429A +28 ; 2 ; GB28 44.= B 8 6 'C & ' ' 892
?92+ 8<2.3B2 = 429A B24 :9G+2 ; :5 2 +B: + 9 ' ' 86 '
1& #6 ' 'E 6 ' +2 H D B ; 42 49 ; B4.= + .3:BI
B2J B4 3 E2.' 2+ B: '44 +2B .28 ; +G29B29A 8:+4 38
44.= B5 '8 +2 E 8 J2 32BB29A 23 =4B 88 ' 4952 G BG8
+ 42982 8 58 B ; 28 8 58 = :532 ; B.G 53 .:5 9 *
84 ; 253 & 'D ' " ' ' 'B& 6 'LL J' 2 ' ; *
J 83B 3 42 G 42982 ' ; 4 ; : B2 '@ 'A' 2J B42 *
+ ' +2 .B ; 2 <2 53 89B8:5 E 8 J2 2 828 <25.G <38
G 429A 952 8 5 83.2 ; J2 ' # A / ' 'D# '5+
' ' b ' '
- ' # A ; 6 8 ' 92 8 ' = 429 2 2832 :8 8 :52
4282B H <<B:.=2B+ D # '# ' 3 + '59 8 283: 3 ; :9+3
23 = 42982 23 :8.9B2 ' 2 3:9 +28 H3: +28I
8:53 253:52 ++228+29B 328328 H428 G24:9 58 U ?9 '+29B
E:53 <?B 428:98 +2 ; 253:50 4:53 +2428 J253 23 GR6
429828 8:53 6 B2J B42B > \E' 'LL E 6 8 ' 9B & 9*
3B2 8:53 +28 ; 9B8 ' E 29A # 429A 42 B:5.28 23
4&G 2BB2 59 ' % ' 5 # ! ' 2J B4 = E2 23
= 429A 4 SS ' ' ' U' *
- ' (! ' :R') ' *
3' # $ 'Q *4B:*3 *\&/ ";' 2B ; 8 42 ; 4*
42. 5 ;' 9 ' <B:E:?92+ '8929B' 6
- ' (! ' <XE3A ^ 42 F<Q/V 8929B ?9 ' 4<:54
9 58.B 3 5 " ' + 3 ' 7 " # ' 892B 23 5& 'B 25 42
.: ; ; 95 E2.' 4F:U< 2 9
'Q= 2/ ' 'D F! '42 G: 8 ?9 '82B3 '25 :5.2B
428 < E48:9 '428 < +:3 8 23 ?9 '82 5: ; ; 2 988 '42K
; : 82+2 4 58 +2 <B2 ; 2B 42 .28 429A 98 J28 23 ; :9*
3:5 4 58 +2 82.:54' ' *
- ' # S 68 S = 2L 2B253 H B <<253 '<+98 42 .253
.=2E + 2B ' ?92 +28 = 9 8 :53 428 J:58 B .= 2B
:55 ' + ! & ' < ' %' LA ; 6 8 ' 3 + ' <B283B28 8 '
:EB ' &9 8 '253B253 2=M \' 952 = 2 H25 ' ; 8 'I 25 '
"C7 ' 9 53 8 <2B 3 2 &283 + ' = 2 H :B.2 E:+:534I
$9 ' =B: 882 428B: ; <3 2328 ; 2 HGB 82I BJ92+ 23 RB2
:= 29 '5&283 ; 2 ' # ' ' 28 ; 9B8
H+2I 88 ++253 < B 42 2B8 23 'G 2 ' 7 '& !#
' " ' 583B9 ; 253 B4<:54 9 =:+ 54 8
=23 = 2 & ; - ' = 2B ' D & 5.+25 & ' ?9 ' 8 J5 2
:B.2 2 :B3 82 B '33 .=2 9 + ; 54 " /& - 'B28< *
' B2B :B32 ; 253 5J+ ' ! & '82 <B282B 5J+:*8 A:5
& / 'M4+2' 2M 23 <B:G G+2 ; 253 E2.'B 8:5 <25 '
?92 +28 429A ; :38 5&25 8:53 ?9&95 23?92 & 5835 *
; 253 '434 58 '5: ; ; 4 042 2 :B3 ?92 +2 ; 5 2*
; 253 25 2A J2
'Q 4*G+&/ 8 ' 9B2 9 \ 3 J< =2BG :42 8: ; *
\9.98 7 'c . <B :+ .228
- ' ! & . 44 ; 2 3 &A '49 4 + 5 5 ; 8
\ / * '4&:\ 2+2 B25E: 2 \ & DG ' 2+2 +2 3 ; 8.9*
+ 5 + R ' \ &6 ' :9 \ ' 952 932 4& ; <B28*
8 :5 ' 2 3 283 ?92 & '283 4 ; 5 5 4 58 .=2*
+23 4 58 B4 23 4 58 +2 + 5J J2 428 G:3 5 8328
23 2&283 .2+ ' ?9& + 93 89 EB2 ' 832+ 4 58 8:5
<:4 ; 2 428 <+ 5328 ' 93 ; 8.9+ 5 3 &G 4G+2
3:9 9 4: ; 52 4 58 +28 <+ 528 ' R ' 952 932 \
< B3 J2B + ' 4 <=3=:5J92 A ' 25 429A 8R3+ G28 . 3
2+2 B4<:54 \ + '8R+ G2 95 ?92 '4 58 +2 + 3 5
- ' # 'S 68 &25 4:3 ?92B B +28 <2B4B 8 28
JB 58 .= 9 ; 28 23 R2G+28 23 GB9 2B28 C - / # '
' S 6 8 ' 4@:983 53 42 B2.=2 '428 G 2G+28 <B48
? 2 +28 <B2 ; 2B28 82B:53 42882 .=428 ' ' '
&=2BG2 42 = 2G+2 ?9&25 5J924:.' :5 <<2+2 9*
J92 23 292 .B: 3 28 .= ; <8 283 58 25 B .=2 23 8
JB 52 283 ; 29B2 25 ; 28 ; 2 32 ; <8 ?92 +28 B 8 58
' ' %"
- ' (! ' 2BBR 'A :G+2 ; ' # 7 3
<B:E2 ' ' 5! ! 3 + ' !3 49 + 3 7 7
! 'Q *4* ; + ; * / 4@ / 6 2B ; 2
42 G:3 5 ?92 $9 ' << B3 253 \ &= E2B ?9 :B:32 25
= E2B ' + 5328 = 4 ; +28 'LL ' 2B ; 2 42 J4:JB <= 2
! :53 J528 G 4 ; +28 3:9@:9B8 .:9E2B328 42 52 J2 23
42 J+ .2
- ' ! ' & . 44 ; 24.B 3 & ' < B 95<; 8
&:B3=:JB <=2 42 & '283 93 E2 23 :5 52 ; 23
< 8 4&R JB2.' \ & 5 #
- '(! ' 3 & '42 & '= 2B QE:R'.2 ; :3/
3 # + ! 'Q *4* ; *8 :5/ 8 ' 2B ; 2 4 4 .3*
?92 .3 :5 42 < 882B &G E2B 'LL B:<B 434 428 <+ *
328 ?9 ' .B: 88253 25 = E2B
- ' (! ' 3 & ! - '42 & # ' < 882B
&= E2B ' =32 ; 8 QE:R'
++ ! 'Q= * ; 5/ 8 ' ; 'LL 6 .3 :5 4&25 :5*
.2B E2.' + 'G 2 'LL ' B9 3 ?92 = 3 952 ; .= 52 \
4+2E2B 428 B42 9A 'LL F6 25<2 42 .:583B9.3 :5 '
! :9E2 ; 253 <B:49 3 4 58 952 .:583B9.3 :5 25 .= B*
<2532 < B &2 23 4&95 2 :B3 =:B M:53 +
- ' # 'S 68 ' # 2 ; 253
- ' (! 'D # '3
' 'D ; -@ "E 'N ' ' /$*/2 " "0." 2 &06-"

2B 428 < +:3 8 'LL ' '5 ' B2 2 3253:' +2 G ; 3
<<2 2 = 25325
- ' # A 56 8 'S + '3:9B 8:53 E259 = 8.958 '
+2B3 23 = 2 93 ?92 < B :B.2 25 ' :53 + ' <. 32 <2*
<:+2 1& ' VBS53 ' ; %
- ' (! #32
'Q *4B/ "5 ' " ' 'LL ' 82 4 3 49
@:9B ?9 ' <B ' 42 ; ; 44 32 ; 253 .2+9 ' : + D:5 283
2B ; 3 ; + 2B 8: B ' # 2B 9 ; 3 5 ' # 2B 9 8V4B
G8253 4&= 2B 9 8: B M2 ' ' ><7 - 7 = 7 ' 1 '
>2 &:G82BE 8 = 2B 23 @2 E:R 8 828 R29A 5.2B 89B
+2 + 29 8 53 428 B2J B48 9B 29A ' ? & ! ' ' " '
' E 53* = 2B +2 @:9B E 53 .2+9 ' 4&= 2B 'LH &= 2B 25
= 9 3 4 2B 25 ?9 5M2 2&2 ' \ *4 B2 4 58 = 3 3@:9B8
4 58 ?9 5M2 @:9B8 \ ' .: ; <32B 4&= 2B 'LL 6 ' 82 4 3
4&952 4<:?92 54432B ; 542 ; 8 B422532 ' 5&283
?92 4&= 2B 4 58 8 ' <+ .2 ' # 82 ; G+2 ?92 5:98 8:R:58
8:B3 8 E 53* = 2B 49 .= :8 23 = 2B 42 + 'G BG 2
'0# - ' " @ ' .= 3 ' ' 53* B3=4+2 ; R
; 2 ; 3 93 5+ 42 <2 52 ?92 8 ' 2+2 43 3 BB E42 = 2B
"I ' + ' 1?#/ - ' % ; ' CVC ' 2 B :542 283
E 29A ; 8 = 83J B2* 283 4&= 2B .2+2 ?92 5:98
5: ; ; :58 52 25 2 23 ?9 ' 283 25 2 23 3B \8*B422532
52 B2 ; :532 J9 \B2 ?9&\ ' ?9 3B2 :9 . 5? ; ++8 58
"I ' 0 ##6! - ' & ' .= ' % ' 988 '5:3B2 ; 3 4 52 4 32
< 8 4&= 2B ' + '1& " ' - < / - '
" ' ' ' J ' 23 ; + \B2 ; 253 ' 283 54 4&= 2B + 283
3 4&= 2B + 283B8 58 2A<4B ; .2 +2 52 89 8 < 8 3
4&= 2B ; ; 2 ' ' '8. ' " ' : + \ .2 ?92 ; 2
4 3 ; :5 E: 8 5 ; 8 ; : 3:98 .28 4 8.:9B8 ; 2
<2B89 42<3 <25 @2 52 89 8 < 8 52 4&= 2B 23 @& ' ; 28
8:9E25 B8 ' ' + ' E 'L &43 3 = 2B + ; 2
82 ; G+2 ' 2 .&\3 3 G 2B 82 4 3 4&95 32 ; <8 882M
4 : J5 \ ; 8 4:53 +2 8:9E25 B 283 '23 <B28253
+ ; 2 82 ; G+2 ?92 .&43 3 G 2B 23:&433 3 .2<254 53
9 4: ; ; 25.2 ; 253 42 CFF ' '0# " (! - ' '
$ 8 #. ' ++ 54 3 4 58 +2 ; \ ; 2 258 ' &2834&= 2B
+ ; 2 82 ; G+2 ?92 <&283 4&= 2B ?92 5:98 8: ; ; 28
; B \83 '5&R ' < 8 >2 <+98 <23 3 = 5J2 ; 253 25
E\B 3\ F" 4JI ' - ' " ' # # '7 ' 3+ LL# : ; ; '
4&= 2B 95 ' < ; E2@ 9 '@ 6 9G83 53 E2 ; 2 3 :98
E 2M = 2B 3:93 2:3 2B ' 9B 'E:98 4 \. 42B # 2B < 88\
+ '3B \E2 \3 3 B: ; <92
- ' ! ' ' 58 & 2 2552 + J?2 & # \3 3 B::*
5:8R+ G2 23 + .:53 592 42 &\3B2 <254 53 952 < B3 2
49 AE56 8+ \.+2 23 ; 2 <+98 3 B4 # 2B@&\3 8 :=2M
428 J258 42 E2B39 8 5J9+ \B2 # ' ' #0% ' 9 = 2B
+ ; 2 93 +9 4 58 952 .: ; < J5 2 ' ' 5
&&'8 :<:9B.2+9 '?9 'E+53= 2B42 A =29B28 <B28 5:98
, - . . / + '1& " ' - C ' E ' 3R ; :+:J ?92*
; 253 & #'4:3 25 2 23 ; :5:8R+ + = ?92 . B &8
5&R 283 ?9&952 4@:5.3 :5 :B3 532 \952 8R+ G2 .*
.2539 \2 .: ; ; 2 4 58 - / 7 # 42 35<9 B B 23
3 53 4& 93B28 'LL 'K #B2832 ; :5:8R+ + =2 4 58 E 53*
= 2B 2 GB9 3 .:9B3 ?9& 53* = 2B :5 E:98 88 88 58
ED "B 'C ' - " ' = 25 ?92 : +2 9 :882 & #42 429A 8R+*
+ G28 ' # 2B 4 3*:5 42 E:98 :5< B+ ' .=2M \ 'B:
' ? ' 1 2 ' ' ' ; 5 H= 2B ; 3 5 8242 3 &2 ; *
<2B2B28 89M : ; GB2 1& ' " ' . ! ' AAE ; ' 5 H&I
25 E2 2 + 3 ' : . 8 =2B 82 B ' .A. 5 A9 6 8
58 ; 258* ; 8 ; 2E 53 4\8 2B 8: B .: 532B D # '
(" ' B 5: 253 , ' ; : ' + ' 8 2G 882 $92 @&: ' & 93B 2B
H & 93B2 = 2B + 'G2 ? 882 25 '288 ' >2 <9 8 ! 25
2B ; 2B 42 E: B H42 E ! $92 @2 &28 ' = 25 2B
8: B H= 2B 8: BI 3: ' +288^ ' :' 5 283 ; 2 52 4&9 '52
4& 2B $92 B .=28 J258 :53 JB 53 <9 88 5.2 2 B8
:9 42 :9 JB2E 5.2 + ' . ! ' 3 ' ' :LA E6 8 ' 9 ; 2
.9 4 8 B8: B H= 2B 8: BI B2 BG 3B2 ' ' '
& # 'L>AE6 8 ' 2 53 \9 8 < 53 23 +9 '4 3 ' ' 2B*
3B 5 @2 9 882: B H= 2B 8: ' G25 = 392 <:9B E:98
23 8 58 . 982 5U ' 3 5:5 <:9B3 53 5&283 ; 2
4& 9@:9B4&=9R 52 4&= 2B ?92 + ' :B.2 428 25E 29A *
JB 38 '59 9A G: 8 . B 42 .2 8:53 +28 28.B <39B28
3:9328 <+ 528 D! 7(/ ' ' 'QQSE 68 ' ! :582 '29B
@2 E 58 B8: B H= 2B 8: B 25 .2 + 29 42 ! :5 B 5 :=
283 I ' .: ; < J5 2 49 B:R 42 E BB2 # ' +
C ' ! ' 4&+82B5 R E 53 e 2B @2 B2?98 E:8 +233B28 45
F6 42 .2 ; : 8 9A?92+28 = 2B @2 E:98 8 B28<:5.2
"I ' ' % ' & 53<= 2B +2 ER 988 '82.' 988 ' <+ +2
: ; ; 2 8:53.29S ?9 9 82<9+.=B2 :5 42E +2
5 " ' +2 52 R < 8 82E42 ; 253E29 25 :.2 5:5
& 93B2 GR2B @2 +2 ER 89B + ' <+ .2 # ' ' ('C
- ' (! ' :9BJ9 J ' & 3 2BBR & # ' <B:E25^ '
& # ' & # ' # #3 5. ' . 3 + ' #3 28< J5 R2B
3 + '32B 49 + 3 =2e <:9B & ' .: ; ; 2 :5 +2 E: 3
4 58 +2 4\B E\ &) 7@ ' 4 8 +28 + 5J928 .:5*
J25\B28 JB2.' a ' AF + 2 ; ' /) ' 5J+ '
#)" 3 8 5\. ' & ' = 2B & '4+ 2B ' 2
58.B 3 6 ' 283 <:9B &) " ' +2 @:9B 4& +:B8 +2
@:9B < 88\ 42 = 23 ' " 5 '@:9B QE:R'
@ ' ? * #8* " 'Q * *B *8 * / ' ' 2 ; GB2 4 952
82.32 .=B\3 2552 :54\2 25 JR<32 Q+ 36 8+\ .+2 / < B
95 .2B3 5 # \B M ?9 '5 3 + 'B \89BB2.3 :5 428 .:B<8

-+4 '*! .0-% &" -60'-[7 " %4 '[%" /#0-% , ! " &" (" /$*/%(
+* %(0.0/% [7 # '0-(*/ 6 [%0-+-%40(6[-$%- " / #
&0 - " [%" + " && "
! ' / # 7 / # D-@[@ + @D$$- - " 5 6- " / ' + " 1- ' / " (*-&
40(0(4&-[' * / ' / 1[&-# " 40(1 , # " 0 '%-2& " &0 6-['0 '@
26- " 5 * / ' / " &- " 40(&" (2* / (* / / " (&" (%'*% ; -['0 '@
26- " (' % / * / ' " (%' *&@< ; -[-0 '26- " (' 6-$$& " % " %
! 6! ' (' " + 0 ' , ! " / % , !! * / ' 4 ' * / * / 2 " # " &" ! '@
%" + 4(' ; ? # # & 3 * 1[%0-% 10 / 2- " / / " 4 ' * / * / 2-0%- * / 5
.*8 ' 16-(%* ' - , ! "E ' ' 'N ' 1 * ' # ' " # " (# - . " ' (# "7 '[(
" 1[%0% "22&[(-0(%- , ! " ' 0 6-['0 '26- " # " 1 7&-(" ' 0
6-['0 '26- " "22&[(-0(%- , ! " ' N ' 0 '%-2! &- " ' " + " / % '
1* ' # ' " ' " % &0 (! ; * ' # - / 0%- * / ' # " (# - [' " / %(6* " ! ' (
" (0 / 7 " (' 8 ' 0 %'*%(6-['0 " ; - " (#10 / 7 " (&0
4 ' " + - [' " 2* / %- " / %&" ((['04 ; - / ('& " (2 ; [' ! ; - / (' " % & " (
%' # / " (5 &0(" 2* / # " " (% 2* + 4- & " # " (# * + - / 0%- * * ('
#" (4! -((0 / 2 " (' " % # " (4 ' - / 2 - 40 ! %[(5 &0 %' * - (- [+ " '
" (. " %! (' # " (0 '260 / 7 ? " % # " (0 / 7 " (' g [(2 " &0 ' *
? 0 ' - " ' 7! 0 / # 9! 0 ! ' 0- (1 " H -% ' #! ! / ' 0 / 7 " % # "
&0 4&! ((! ; &- + " 6-['0 '26- " ' + " (2* / 2 " 4%- * / (("K
'0- " / % %' *4 ' '0.0&[" (' 4* ! " 2* + 4 ' " / # - " 1! / - * / '
%' [(@40 '$0-% " #! ' * ' " [%" + " & 0. "2 .*! N ' '
' 1! ' " ' ' ' - 'R #/ ' - ' 'U - " ! J 0
2 " [' #0 / (& " # " & ' # " (" (4 ' -%(#[707[(# " %* ! % " +0@
%- [' " ' , ! - ' . - . " / % " %((" / * ! ' ' - ((" / % # ! ! / " 4 ! ' 2* / @
%" + 4&0%- * / 5 "1 " (% 2 " , ! " / * ! (044 " &* / (& " (0 / 7 " ('
, ! " - " ! 0 #&.- ([(" / & " ! (* ' # ' " (" % 6- " '0 '26- " (5 " %
"1 " (% # " 2 " %% " '02 " , ! " (* / % & " (# [+ * / (' " (& # '
! - ' ' ' YI 0 " " : % " / (- * / ' (! ; * ' # - / 0%- * / ' # "
4 , ! . * - '] #10! % * '&%[(' # " '0 / 7(' 0 6-['0 '26- " (*@
-0& " ' ' -7 ' ! ; * ' # - / 0%- * / ' # " 2 " %0 - / " (26* (" (
&" (& - / (0 ! : ' 0 ! % ' " (' " ! : ' " : 4 ' " ((- * / (, ! - 2* / ' - " / @
/ " / % [&0 + [+ (26* (" / " 2* / . - " / * / " / % 40(0 ! + [+ "
* ' # ' " # " 26* (" (5 " % *1 " (% ['%0. " (2 " %% " 6-['0 '26- "
# " ((%8&* (, ! " & " ; * / 7 * $$% (0-% + 0 '26 " ' ' 9
'7 - 5 ' " ' ' - / 7 '8# - / '4 '
- ' # 'S 68 28 28.9R2B8 25 952 .= ; GB2 <B2K
; 2B2 +28 .=2E + 2B8 <B28 25 952 93B2 .= ; GB2
82.:542 23 +28 JB 58 .= ; G2+ 58 +28 <+98 <B:.= 58
?9 ' 253B:+253 25 8 .= ; GB2 ' 2&283 : 253 +28 3B: 8
J2B B. 28 ' 1&#! - ' " D! 7# / ' ' " " "
'# $ @ ' * . " / 3 ' # # & ' / # # & 3 / - '
/ # #=7 3 4* '%! 7 ' ; # #=7 3 -%0& ' / ? # # & 3 #! '
&0% ' & # # & ' , ! - . - " / % #! ' 7 ' " 2 &" 404 -2 - ' $$2
4[5 ' (0- / % D. *8 ' / # c @ ' " % 8 46 4 2* + + 0 / K
" ' D. *8 '
- Q D-@[@ '0 '@26-@[15 1$ ' * (%% '0-%['2* + + "
(1 ' [%0-% , (4- ' [> & " 6-['0 '26- , ! " 0 ' ' 0 / 7 " + " / % E ' " ; '
Q + ' 0440 'H " / % [' &0 6 -['0 '26- " ' '# " ' 6-['0 '26- , ! "
' 'O ' (' %0& " 2* / $! (- * / ' # " (% ' ! 2%- * / ' # "
1* ' # ' " -6['0 '26- , ! " # " (0- / 2% " 7&-(" '
' 0 0 ! 7* '# - ' " ' ' # / C=7 '
- (! - ' % ' - . ' 4 ' AM ' [# ' 9 ' c
- ' (! ' 3 " & # # & 7 ' 5< 6 " ' ? " N
" - " 9 ' # " & # # & ' 6-['0 '26- "
+ H Q JH ' D-@[@-0- >6- 2 "@ + 0 / Z ' " e '
1! / " + 0 / - [" 6-['0 '26- , ! "
- ' (! 'D # # A=7 ' " % & " 89 A2 -
' D-@[@ '0 '@26-@<0@(- * / E I ' '
[&*7-(+ " ' 2%- * / ' # " 6-['0 '26- (" '5 ' [(! &%0% # " 2 " %% "
02%- * / '
'% ' / # 0 ? 7 / 8# ? D-@[@ '0 '@26-@<[E ' " 'O ' [*&*@
7-C " ' %0 ; $- " - + " ' ; -%* '26- " ' # + - / - (% '0%- * / ' ; -[@
'0 ' -$$- - (["
' (! 'D * #(&
^) # T6) ' D-@[@ '0@%-@[IE ' " ; 'Q! -'4* / 2 " ' / " &" (
26* (" ((0 " ' [" (' , ! - 0440 '% " / % 0! :' 4 ' [% " ('NN " ' + "
" (2! &4% ! ' " % # " 4 " - / %! ' " ' %8& " 6-['0%- , ! " (%8&
#0 / (& " , ! " & &0 ' " &-7- * / ' - + 4 * (" [' 10 '%-(% " # " ($* 'K
+ " (' % '0#-%- * + - " ' ('EN $-2 ' -% ! " 6-['0%- , ! " ' (-7 / " (
; -['0%- , ! " (' [2 ' -%! ! " 2! ! ' (- . " ' , ! - ' " % (! / " H ' " @
. -0%- * / ' # " ' [2 ' -%0 ' " 6-[' * 7&846- , ! " " % # * / % & " (' (-K
7 / " (' (*$$% # ' (" [- . [((-7 / ' [(-7 / (' # " (20 '02%[- " (' 6-[@
' * 7%846$H " (' NN 1 " (% # -% ' #0 / (&10 / %- , ! -%[' #! ! / ' " # " (
[(4[2 " (# " 404- " " # 784% "
' ? ' H " 40 - : [5 ' # [' - . [' # " 4 -5 ' (0 " ' [' , ! - '
40 '0% (0 . * - " " ! ' 4 ' - + - % - . " + " / % & " ' (/ (' # " $* ' % D 24[5
2:40 [2 ' 4[. ' B&34* . ' % "4$ G 'E "NPG :GI -*E #1 * # '40 "
2A3258 :5 #% . - / ' (0 " H5 0 / (2 ' -% '38= B $* ' % 5 88*
4 ' -% ' ! # " (" ' 0-% - / * -70 / - , ! "
$ ' D-["@26 " ! 'E ' ' *8 '
' &$- ? = " D-@[@ ' *@ # '0@ + 1E ' ' "4 ' ['
(" / %0%- * / ' # " (02%- * / ' # ! ! / ' # - " ! ' , ! - ' (" # " * / - 0-% #0 / '
& " (' % " + 4& " (40%% " (0 '0% " (' 'NN 1 " (% # -% , 0 " & , ! " $* - ' #! ! / ' '
* ' 0%* ' - * ! #! ! / ' # ' 0 + " # " * / ' # / % & " (-8 " % " + 4 ' / % [
[16-(%* - " (0 - / % 1
'# $ ' & " 4[5 (02 ' [' " % "#! 'b
% ' &$- ' D-@[@ ' *@# ! @ AP ' '1 " ' + " #10 / %-@ V
, ! -%[' " ' . -% " ! " 0%%026[' [' " % " + 4& "
' f I&4* *.OP5 # " -24[P ' (02 ' [' " % - * ! O *5 '
"(#0. "
&# $ ' v@[@ ? @ 7&-@$E ' ' + ' * + ' # ' # * / / ['
0! :' (- 7 / " (' , ! " & " (' 784%- " / (@ " + 4&*8%$$ " / % # 4*! ' ' " : @

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= <<:. ;<2 4 3 988 2BJ:3 5: ; 8 4 4 ; 525.28 ?9
: 3 4 58 +2 .2BE2 9
- (! 5. A < : . 42 > ; 3:8 . =2B + 23
B:3 95 JB: 8 < : 88: 5
3 # Q *<<:*\ *83 *5"2/
2B ; 66 G:3 5 ?92 : ; 4 952 ; +2 42 <+ 5328
4:53 <2 283 +2 ; BB:55 2B6 542 ?9 . : ;
<B25 [28 ; BB:55 2B8 4 542 23 +28 " / 23 ?9
283 E: 8 52 4 :8 .4B 5228 Q4B G+28/
- c ! " " 23 A4 E . ! 3 J52 . = *
3 J52 42 .=2E +
Q *<<:*8 5*34*B / 5 ;
G9+29A ; : 3 4 = : ; 2 23 ; : 3 4 .=2E + :98 :R2M
+28 B: ; 58 4:53 +28 9329B8 8253 428 28<=.28
42 <:2328 23 ?9 :93B253 J +2 ; 253 +2 + 5J J2 42
28<B 3 23 .2+9 49 ..29B +8 < 88253 +29B E 2
.=2B.G2B + 5 39B2 23 + ; 5?9253 3:9 :9B8 +29B8
= B:8 R 8:53 988 83B 5J2B8 ?92 +28 4B J:58 +48
23 +28 = <<:.253 9B28 C = " YA
5 4 3 <+98 8:9E253 .253 9B2
- (! D 53:A2E 9<: . 42 ; 3:P .=2E + 23
A E 9<: . .253 9B2
j # Q *<<:*\ :* /8 4+ 3 52 ? : 5
2A3B 3 42 + <2 9 42 .=2E + :9 4 52 23 ?9 3 +
G 82 42 <+98 29B8 ; 24 . ; 2538
- (! " " 23 *
Q *<<:*\B * / : ; 4 95
.4+2GB2 ; 242. 5 JB2 . 4 3 +2 <=B2 42 + < 442. 52 23
?9 E E 3 4 58 +2 E6 8 2.+2 E 53 =B2 .=B 3 2552
<<:.B 32 4 3 :9 ; 8 + 25 4 3 5:5 "
- , B A
3 # Q *<<:*\B *3"2/ 6 255= 42
G:3 5 ?92 25B2 42 <+ 532B 428 429A 5428 23 42
B ?92
3 $ Q *<<:*\B *3 *\ / 6 2B ; 2
42 ; 242. 52 $9 . :5.2 ; 2 # <<:.B 32 :9 8 4:.K
3B 52 28 ; 242. 58 = <<:.B 3 ?928 .29A ?9 89 *
E253 + 4:.3B 52 4D # <<:.B 32 L . 2 = <<:. *
3 ?92 .2 <B: :54 ; 253 +3 B 2 23 ?9 55:5 .2
952 ; :B3 <B: . = 52 58 4 32 < B28 ?9 # <<:.B 32
25 4:554 952 428.B <3 :5 4 58 8:5 0 *
- (! " " *
j # Q *<<:*\B *3 *M2/ / 9 *
EB2 +2 8R83= ; 2 4 # <<:.B 32
? " " *
3 # ! Q *<<:*\B *3 *85^/ 8 ; 2B ; 2
42 ; 42. 52 : .3B 52 ?9 8 33 .=2 ; 3 3 :5
4 # <<:.B 32 4:55 53 .2332 ; 3 3 :5 +2 8258 < B*
3 .9+ 2B 42 89 EB2 + 5 39B2 2283* *4 B2 4 2394 2B
+28 2 :B38 8<:53 5 ?9 2+ +2 3 23 +28 .B 828 ?9 2+ +2
<B:49 3
3 # Q *<<:*\B *3 *8 / 2+9
?9 4:<32 = <<:.B 3 8 ; 2
2 Q *<<:*\B *5 / :<3 52 49
; :53 # + . :5 . :58 .B 2 9A !9828 ?92 82+ :9
+ G+2 J 82 3 @ ++ B 4 95 . :9< 42 <+24 23 ?9
< 88 3 <:9B 58< B2B +28 <:2328 ! 8 ?9 54 @2 + 8
E2B8 < B E:3B2 :542 H+28 2 9A 42 :9BG:5I 58< B28
5 ; 2 < B +3 4 ; B G+2 :53 52 $?2 E:98 5 24328
@ ; 8 E2B39 4 # <<:.B252 > AE ; *L+6 J
G9 +28 2 9A 42 # <<:.B 52 +2 J 5 2
<: 3 ?92 +2 8 +8 ?92 = B+28 S 23 983 E2 23 9*
B2552 :53 <: 53 G9 4 58 +28 2 9A ?9 < 5.=2 # <*
<:.B252 ! 8 25 5 .28 J92BB 2B8 ++983B28 J5 :*
B 538 5 3 53 ; : 58 <:+ 8 5 25 3 253 < 8 <+98
JB 548 " 5
- # S 8 <<2+2 ! 2+< : ; 252 25 8 E E2
9B29B 9 + 29 42 # : .B252 28E2 +253 .2332 8:29B
28 3: ; G2 9A B B 8.= 8 4:53 + 93 ?9 2+2 8:@32
B2982 28.=2E2+ 2 " G > 9 + ,
X (! T B :A<'E5 42 3X : .=2E + 23 A< EE
8:9B.2
! Q *<<:*4B:* ; / L =2M +28
5.+258 + 29 . B?92 4 8<:8 < : 9B +28 . :9B828 42
.=2E 9A 23 42 .= B8 L 9@:9B4 =9 32BB 5 89B
+2?92 82 :53 +28 . :9B828 <+ 328 428 .=2E 9A
2B ; 2 4 B.= 32.39B2 8< .2 :G+:5J 4B288
<29 <B 8 42 5 E2 9 23 32B ; 5 9A 429A G:938
< B 429A = ; .R.+28 . : ; ; 2 +28 = <<:4B: ; 28 ?9
82BE 253 9A . :9B828 428 .=2E 9A ,
D 5. : <:<: . 42 * N .=2E + 23 N<N
<:P . :9B82
! Q *<<:*4B:* ; 2/ :9B82
42 .=2E 9A B3 42 4 B J2B +28 .=2E 9A
" "
3 # Q *<<:*J+:*8 / : 88:5 49
J25B2 428 <+29B:52.328 = <<:J+:882 E9+J B2 4 3
< +2 B942 23 . :559 988 8:98 +2 5: ; 42 <+ 3 9
2283 +2 " , * A 6 42 .2B3 58 9329B8
" " 23 R(: E: + 5J92
Q *<<:* * / ! :583B2 G9*
29A + ; : 3 .=2E + 23 ; : 3+ JB G5 .2+ =B < B

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%
&- * / 40 & .-0 / # # 26" .0
Q D-@44*@O@9-@[1E 6 Q! 0
'044* 16-44*4607-"
& ? D-@44*@4*@O@+1E * + #!!
7" / ' # # +0 + + -$ '"(40268# ' + "(' #0/ (& " , ! " & * /
2* / / 0 # ! : "(4 2"(.-.0/ "(16-44*4*%0+ " 0+@
46- ; -" " 16-44*4*%0+ " #! / 70 "#" -2* c"@
" / 76- 26- ' ! '7-" / #" 0+- " / %0-" $-% - +4'-+ "
04 "(16-(%*- ' #" #" ! O 6-44*4*%0+ "(, !1-& 0.0-%
4'-(.-.0 / %("% %! (& ! -@+ + " / f784% ' #0/ (! / "
7'0 / # " $* ((" , !1-& 0.0-% $0-% 2" ! ((" 0! :" / .- ' * / (#!
-& J , " % . 4 -((/ 0P ! #" (6-4K
4*4*%0 + "(# ("-< * ! #-:@("4% 4-"#(# & * / 7 ! " ! 4
! ("4% # 60 ! % ! " % , ! - / < " # 2-'2* / $ '"/ 2"
= " M N 8 O#"(6-44*@
-*%0 + "($*((-&"(16-44 4*%0+ " #" 2"%% 4* , ! "
0/% #-& ! .- " / / "S "(0(("< 2* + + ! / #0/(& "(408(
, ! - $* ' + " / % 0! 9* ! #16 ! - & 0 0/2" 1 & " +07/ "
% 1 / 7& " % " ' "5 -& 1 %0-% (! '% * ! % " / %0&- "5 (O & "(@
"(" + ; &0 / 2" 0. "2 1 "(4"2" 02% ! " & & # 1 $ '-, ! " %0%
% " & & , !1-& $0 ! % ! / 2* + 40'0-(* / 0%%' / % -. " 4* ! "
(0-(-" & "(#-(%- / 2%-* / (9 < / 4 YY- N -7
"% $0 + -&- " ' " + " / % " "(! / 6-44*4*%0+ " "(#-% # ! %+
6* + + " % "(@4 "(0 / % N * ! $$ " 2* + + " -+ 6-44*4*K
%0 + " (" #-% # ! / 7 ' * (6* + + " , ! - ' "(4- 4 / - ; & "@
9 / " / % "% ; ! 80 + + " / %
1 B 4*%0+ " "(% ! / 4"-((* / (, ! - "(%
04"& "< 26" .0 $! .-"& 4* 2" , ! -& / 0-(% "& $! / #
-& ? 9 4 B)
? E *0* *4* # " % -%- '*2 26" .0 " % / "@
*4*5 $&" ! . "
? & D-@44*@4*@O@+ -- /
+-"@ / 1E 6 " + " #" <**&*7-" Q! - "((" + ; & "
16-44*4*%0+ " N # "(6-44*4*%0+- "/ (
2&0((" # +0 + + -$ '"(080/% 4* ! " %H " & " 7" / "
6-44*4*%0 + "
? D-@44*@%*@+ -"E 40%* + - " #!
26" .0&
F ? " " % *4HN #-(("2%-* /
D-@44 ! @ 'O@$E (" + " # " 26-@
+-" *+ 7 / '- , ! " # "(("&($* / ! (40 '&102-# "6-4@
4 ! '- , ! "
D-@44 ! @ '-@#1E I " + " # ; *%OK
/ - , ! " " / ' " # " 4&0 / % "(0 , !0%- , ! "(#1 ! ' *4" , ! -
0440'%-" / % &0 $0+ -&&" # "(60&* '07 "(
$ D-@44 ! @ '- "E " + " # + #"@
2- / " *+ #* / / '&0 4 ("/2" 022-#" / % " & & " # " 10@
2-#" 6-44 ! '- , ! " * ! # "(6-44 ! '0%"(#0 / (1! '- / " # /
16* + + "
? I X/%* 6" .0& * $ * 4 , ! " ! "5 , ! " ! "
#" 26" .0&
V Q D-@44 ! @ '-@ E 6 " + " #" 26-@
+-" 2-#" 6-44 ! '- , ! " '02-# " #" 4& ! (-" ! '(("&(40'@
%-2 ! &-" (#" 1&- ' - / "# "(+0+ + -$ '"(6" ; -. * ' "("%
+ + # 16* + + "
@-@ ? " " % *-4* . ! ' - / "
$ D-@44 ! @ '-@%1& " / " #" 2*@
, ! -&& "(/ - .0&. "(, ! - / 1* / % "/2* " % % * ! . "(, ! 1
1 %O% $* ((-&"-
D-'@(- / (-@ / 1E 6 " + " #16-(@
%*- " / 0% ! " & & " Q+ %-" / % # ! ; * / " , ! - # 4" / # # !
; * ! 2
H ? 0% # " ; * 2
$- '@(-@ / 9 " + " #" 26- + - "
'- / 2-4" , ! - "(% #0 / (& "(H- ((" #" ; * ! 2 " % #"
+ * ! % * /
- ? # *
% / 7 D-'@(-@4 @&1E 6 " + " #" <**K
&*7-" & ! 2* + + " ! / ; * ! 2
? 0% ; * ! 2 " % " 4"0 !
\ Q D-'@(-@[1E 6 " + " #" + "#"2- / "
2-#" 6-'2- , ! " 4'*# ! -% #" &0 (04* / -$-20%-* / #
'6- ' * - / "
? 0% ; * ! 2
$? D-'@(-@(+1E " + " #-#02%- , ! "
#" ! " # (07 0 ; &" , ! - (1":6 & #"(0-((" "(26"<
2"%0- / (6* + + "(
6C # $% 0% ; * ! 2 U
D-'@[*@(" $E + $$W[/ - +0& $OK
; ! & " ! : + *-%- ; * ! 2 "% + * -%- 2" $ * ! (.*-&
%* + 6* #0 / (&0 4*((- ; -&-% 5 #0 / (2"%% " 4*((- ; -&-%
.* ! (% * ! . " " < & "(26*"(# " '0-(* / & "(; -'2*2" $(
& "% 6-44*2" / %0 ! '"("% +-&& " 0 ! % ' "($-7 ! ' "(; -<0- ' "(
4$-= % o o 4 $$ 4-7 6* (" , ! - / 1" : -(%" 40(
U & ; " ' *- / -J %0-% 4" ' (?-# , ! " &0 2 ! "# " * / # '"(
080 / % + -(% * ! % " (*4 % ! # % * + 4" & " * #1 (40@
7 / " 40" ! / 4 9"% , ! " & " 20'#- / 0& / * + +0-%

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0 5 8' G98 E2 ; 2530 <:9B &= 83: B2 428 < B3 28 WWM@
; 253 B28 3 53 428 3 8898 ?92 428 =9 ; 29B8
-' (!' 3 8890 23 S (0 3B 34
3' # ! ' Q*83:*5:* ; 2/0 ' ' 2B ; 2 42
G :+:J 2' 582 ; G+2 428 +: 8 ?9' < ' 4253 '+' J252K
B 3 :5 23 + BB 5J2 ; 253 428 3 8898 :BJ 5 ?928
' 6 VB3:P0 3 8890 23 E:Q :30 +:
#' 0 ' Q*83:*B* +0 * &/0 6' $9' 283
B2+ 3 "' &= 83: B2' 832829+2 ; 253 4 58 .:'33B2 4&:9*
EB J2' +2 ! B: B = 83:B + 42 5.253 42 2 9E 8
-'# ' S 6 8' >2 89B< 882 25 B2+ J :5 89<2B83*
3 2982 3:932 :' = 83:B +20 ' ' 3:
' 3' ' 42 ' = 83: B2
0 Q*83:*B*"0 "2/0 " ' " ' 4&= 8*
3:B 2B ++ +0 5@:+ E442 <23 38 :B5 ; 2538' 28 ; : 54B28
; 29G+28 8253 4& E: B2 # 83:B 28 4&2G 252 5 : B20 ; '
3 ' $ @> 2B ; 2 4& ; <B ; 2B 2' 233B28 = 83:B 2280
E J52332 8 = 83:B 2280 :2+28 ?9 ' 8 :53 JB E228 89B 49
.9 EB2 :9 49 G: 8 E2:' ?92+?928 :B52 ; 2538 ?9' :53
B <<:B3 9 89@23 49 + EB2 'LL 6 2B ; 2 42 <2 539B20
5 3 G+2 9 G 25 = 83:B 20 95 3 G+2 9 := 283 G 25
:G82BE2 3:93 .2 ?9' B2J B42 &= 83: B2
' Q*83:*B* 5/0 ' 'LL ' 2+9' ?9' 2.B 3
&= 83: B20 ?9' ' 2.B 3 992 = 83: B20 428 = 83: B28'
&= 83:B 25 52 4: 3 E: B <:9B G93 ?92 &93 + 32 ?9'
82 3 B2 4&952 5 BB 3 :5 E2B 3 G+20 230 8& + ; 2 2 ?92+*
?92 JB4 ; 253 4 58 8:5 :9EB J20 + 52 93 < 8 ?92
.2 8: + <:9B 25 .:BB: ; <B2 + ' E2B 320 ; 8 <:9B+'
B2 ; 29A B2.2E: B0 "G ' ,* ' S
' * '$ ' >2 52 89 8 < 8 .' 95 = 83:K
B 5 ?9' 4: 3 E:98 42E2+:<<2B +2 82.B23 428 . G 5238
5' &:B4B2 428 G 3 ++28 5' +28 532B 38 428 < B3 8' +
93 ?92 @2 ; &2+GE2 9*428898 42 &=: ; ; 2 <:9B B2
3B2 ; G+2B 3:932 .B2 3 +B2 8:98 +28 @9J2 ; 2538 42 290
' # ' &' :9B ; 2 82BE B 428 :B328 < K
B:+28 49 <+98 JB E2 428 = 83:B 258 H . 3210 "'
!,* ' C ' '<B2 ; GB2 4<:?92 E:98 <B282532 95
JB 54 8<2.3 .+2' 29 ?9' .BG2 +2 . 2+ 23 +' 32BB2
< B 8' < B:+2 23 ?9' 3 &=: ; ; 2 "' 8:5 ; J2* .&283
< B :=' .: ; ; 25.2 ! :+820 +2 <+98 5. 25 428 = 83:K
B 2580 +2 <+98 89G+ ; 2 428 <= +:8:<=28 23 +2 <+988 J2
428 J 8+ 329B80 "' ' 0 ' 5 2A J2 428 = 83:K
B 258 ; :42B528 <+98 42 423 +80 428 38 <+98 .:9*
83 3G80 428 4 328 <+98 <B4. 8280 428 93:B 3280 <+98
4& 33253 :5 9A 98 J280 9A +: 80 9A ; :29B80 9
.: ; ; 2B.20 "' +' 5 5.20 "' & JB .9+39B20 '+' <:<9K
+ 3 :50 '! ' +5&283 ?92 3B:<
:B4 5 B2 9A = 83:B 258 42 +:92B 42 3BG8* ; G2= 538
=: ; ; 28 ?9' :53 B2549 82BE .2 "' + ' 82.32 4: ; 5 532
:9 "' + '< 3B 20 "' 1 ' ' :98 528 E:58 93B2 .=:820
8 5:5 ?9& E 53 +28 <+98 5. 258*= 83:B 2580 'R E 3
42 ?9:' B2 952 = 83: B2 5. 25520 1 'LL ; *
+ 4B2 ; 253' >2 52 89 8 ?9&= 83:B 250 :&283*"*4 B2 @2 B *
.:532 8 ; <+2 ; 253 +28 38' LL J' 23 9 4 ; 5 5' '
B 8:5 283 = 83:B 2552* 23 +28 <4 :58 8:53 .3B .280
-. ' 4 58 +2 ! ' ' 'LL " B 2AK
3258 :50 .2+9' ?9' B .:532 ?92+?92 4EG52 ; 253' 2
+29B8 4GBGJ+2 ; 2538 = 83:B 258 4G+280 E2.' 95 B:53
4& B 5 +8 H+28 @29528 J258 4& 9@:9B4&=9 I 2B:53
; ++2 : 8 5:4 29A 443 + 428 <+98 B29A 254B: 380
" " ' 3' 0 <' F ' 58 3:58 .28 :B52 ; 2538 H4'
+ ' G+2I +2 E2B8 3: ; G2 25 + 5J929B P 2 <: !2
5&283 <+98 ?9&95 :B 329B 3+ ; 420 $9&95 B: 4 = 83:*
B+25 4&952 G+2 58 < 420 ' & ' ' 5' :3B2
; ' 8&283 3 "' 3 G+2 &95 GB J 54 G 25 B24:93 G+2
2 42+2 = 83:B 50 # ' / ' LL 6 S & .:+2
5:B ; +20 = 83:B 25 82 4 30 25 < B3 .9+ 2B0 42 .29A
?9' 2394 253 8<24 +2 ; 253 &= 83: B2' + E293 253B2B
4 58+ ' 82.3 :5 428 = 83:B 258
-'# ' AE618' 3 ; J 5 0 8' .: ; ; 2@2 E 8 +28 <*
< B25:28< B 8 28 < B:+280 ?92 @&283: 2 95 = 83:B 250
-((' +90 ' " S 6 8' &=R83:B 250 .&283 95
'2 2B 325 53 '"7-(&%"' 428 <B2838 42 +' .:9B23 @98K
3 .2 4 E 520 +28 ; 8 4:55G8 82+:5 +2 83R+2 23 <:B322
42 5:83B2 : G+2 B 8:5 5 39B2+20 +28 93B28 <B: .2*
4 53 42 <9 88 5.2 5 5 2 23 428 < ' .2 5. : ; <B2K
=258 G+2 "' 5:980 ? '0 * ' D
-' (!' +X3: B2' D
' Q*83:*B*"/' @&= 83:B 80 5:<8 = 83:*
B :580 E:98 = 83:B 2MP ?92 @&= 83:B 20 ?92'5:98= 8*
3:B :580 ?92 E:98 = 83:B 2M0 W' :' LL ' .B B20 B *
.:532B 58 = 83:B 2B +2 3:93 < B 42 ; 2590
/ '# '+' ' "!' !(-%# "/' 2"' ("/(' ,!-' "(%&"
("/(4'-+-%-$'NN F "'+"#" 4"-/%!"' ;("'."%*!%
"' ,!-'"70'#" 16-(%-'"' -"/' 6-(%*-'"' !/' %0;&"0!'
' -(%*-'"' !/' 4*'%'0-%' &" '"4'"("/%"' *!(' !/' 2*(K
%! +" "+4' !/%# 0 16-(%*-'" *!' "&0 0;&"5 +*/%"'"
&"' 4"'(*//07" ,!!-&'"4'"("/%" *22!4;' " ,!"&,!" 02K
%-*/' ,!-' #*//" #" 1-/%"'#% "% #!' +*!.'"+"/%'
YI /9*&-."' #" #-."'(4"%-%("*'/"+"/%(' -(%*-'"
95 &0+;'-(%'*4 59' LL -(%*-'"' !/' ' ;2-%' 1"/9*&-."
#" #"%0-&($0!:
-' 'O I (' :9B = 83:B 2B 23 .B:5 82B 3:9328

.=:8280 '50 5 0 8'LLAE 6 8' 5'+' 4 28 ; 2
3 < 882B 2 283: 3 :B3 G 25 = 83:B 42 + ' <B 82 42+'
E +2 42 53* 25R80 < B +2 .=2E + 2B 4& 9 ; +20 # '
'<' R' '< B:+2 42 &=: ; ; 2 B2882 ; G+2 <B:*
<B2 ; 253 "' 952 3 < 882B 2 = 83:B 42 23 J9B420 s
9 ' R
' # 83: B20 <:9B +28258 42B .:532B P ?9 53
"' .2+9' 4&25@:+ E2B 95 + EB20 + E 253 42 .2 ?92 S
' ' 29 +2 8258 42 3 G+2 90 4288 50 B2<B4825+ 3 :5
QE:R2M &= 83:B ?92/
' Q*83:*B*G* /0 8' ' 4. 3 4&952
E2539B2 <+ 8 5320 :9 4&95 3 42 <29 4& ; <:B*
3 5.2' 28# 83:B 233280 3 3B2 49 + EB2 42' +2 ; 53
428 4 9A' &283 JB 54 8 J52 ?92 @2 E 2 ++ 80 <9 8*
?92 @20 '9 8 . :5329B 4&= 83:B 233280
' 28 5:9E2+ 832842 B 852 8:53< 8 8 8.B9<9*
+29A 25 3 4&= 83:B 233280 ?92 @2 +2 89 8 25 3
4&= 83: B20 9 = ' " ' N' @9 5 J'
'H+' 2 9 ; 2+2I 44G 320 89B +28 ; B2.= 9A 42 +
+ B80 42 +2B: 0 89B +28 ; 5 83B280 89B +28 2 ; ; 2<0
428 = 83:B 23328 B ; 88228 4 58 428 . G B2380 - '
! '" ' ' + .: ; <+20 := ?92 ; 3 50
92+?92 825325.2 :9 ?92+?92 = 83:B 2332* 9 80'
?9 54 + 'B 882 ; G 4 8:5 G93 50 2 8 +:5 25 8 +:50 "
?9 .:5?92 & <<B:.=20 2 8:5 8 E: B 4&2 ; <B953 +
<B:4 J92 &2559 0 1 /
' ?' *!(0.*/($0-%' #-% *!6*!'(' #"4!-(
,!"&,!"(0//""(6-(%*-'"%%"' ,!-' /"' ("' #-(0-%4*-/%
#!%" +4(#" */(0'#
-' '#$ ' -+&/!%-$
'D-@(%*@'-@*@7'0@$E' ' ' "&!-
,!-0 260'7" #1#2'-'" 16-(%*-'" #!'%"+4(' " ' 0K
/-"&"/'%-'0 U#" (*/' 6-(%*-'"J '$'' #" 4"/(-*/'
0."2 &" %-%"' #16-(%*-*7'(46" #" '0/2"' '
Y M' R' /' /*++" 2*++!/#+"/%"/' '0/2I 6-(@
%*-'"-*7'046" 6*++"#"&"%%"'"(4"/(-*//"'"%'2*++"
/' #-(0-% 0!%'"$-('044*-/%" 4*!" "2'-'" 16-(%*-'
'! ' " " &8"'!%(*!."/%#"
2"(6-(%*-'*7'046"(#" '0/2"' "% !!(07"'$!%#"&"!"!
#*//"'"#"(;'"."%(#"2*/("-&-"'(#1 %0%0."*"&"(4'*K
.-(-*/(#"&"!"260'7" 1' 1;-(%*-'*7'046"%-"/%
4&!(#" 10//0&-(%"(-+4&"' "% 16-(%*-'"/'("+;&"0.*-"
!/'260+44&!(&-;'"4*!" 1#&*,!"/2"' 1' " ."!-
#&!(' '*-'#" 0;8&*/"'("*'80-%&"4'"+-"'6*++"
#"&0%"'"20" %*/'("(2*!'%-(0/(&"&!-#-(0-"/%
"%("(6-(%*-'*7'046"("1&!-4*!.0-"/%' 0 *'
' ' 14 ' S0-" '"70'#" &" 20'0"%;'"#16-(%*@
'-*7'046" 2*++"-/##&-;-&" U *&%0-'" 0.0-% "!' &"
%-%'" #16-(%*-'-*7'046"J5 +*/' # ' = , ' B$3
0.0/2"' ' & A 0.' ' A %' " !'#"
%"+4(04'#(20##+-"4"'#-% !2&*(5"%' ' (0 +*'%
&0 4&02" #16-(%*-*7'046" #" '0/2" +" $!% #"/!#"
(0/(0!2!/" (*&&-2-%0%-*/' #" +0 f0'%'
A8 ' O'
-' 8'"H' [' 29 . 43B2 +2
<B:<B2 4&95 = 83:B :JB <=2283 4G B 882 ; G+2B +28 ;
34B 9A0 23 :5 283 + 83:B 25 ?9 54 :5 +a80 ; 23 25
:29EB20 9 ! ' ' I" ' R ; :+2*
J ?92 ; 2530 &= 83:B :JB <=2 5&283 < 8 93B2 .=:82&
?92 B= 83:B 2 :P ; 80 4 58 &?8 J20 &= 83:B :JB <=4
B2 ; <+ 3 952 .= BJ20 &= 83:B 25 .: ; <:82 95 :9EB J2
-' 0 8' @ .: ; ; 2 B2. 32 958 5. 258 =R8*
3:B :JB 280 0' ' 3 <:9B .2 ?9'
@2 .B:R <+98 "' G+2 &83:B :JB8?@=20 6 40W ; : '
'O I Y' :9.= 53 .2839' 3B28 5:G+2 23 3B28 J+:B 29A
B:R 9+ ; 20 4:53 54 J52 = 83:B :JB <=20 E:94B: 2
G 25 J B42B :5529B 42 29 23 428 <2B8 ! 52B0 27 @
>7" ' , ' / ' " '
' ?' H$$ *4% 40%4*3' #" 7 'D6-(%*-'H"%
40"(-.' #2'-'"'
3 # + # 3 Q*83:*B*:*JB * 4/0 ' 5'
2B ; 2 42 <+ 8 532B 2 :BJ4 < B :+3 B2* 2 ; <+B
+28 :5.3 :58 4&= 83:< :JB <=2' :3B2 = 83:B :JB <=2
5&'<9 E:98 @B2 8' .:9B .: ; ; 2 + +2 448 B2* + < 882
8:5 32 ; <8 "' 8:9 B B ?3 "' = 83:B :JB <=2B0 9
= ' 6 ,' 82<3' ARR' LL # 83:B :JB <= 2B293
432 <+98 .:B P2.3
3' # # $ ' Q*83:*B*:*JB * *\&/0
6' $9' .:5.2B52 &= 83:B :JB <=2
$ 'Q*83:*B*\&/0 6' LL '$9' << B3 253
"' &= 83: B20 ?9' 'B <<:B3 "' &= 83: B2' + 52 5 BB 3 :5
= 83:B ?92' 2 83R+2 = 83:B ?92' :932 .2B3 3942 ?9'
5&283 < 8 44 ; :5 B 3 :5 ; 3=4 ; 3 ?92 5&283 ?9&952
2A3B4 ; 2 <B:G G + 34P + 5&R ' < 8 4& 93B2 .2B3 3942
= 83:B ?920 9 ! ' ' 'LL 2 ; <8
= 83:B ?9280 82 4 30 < B :<<:8 3 :5 "' 32 ; <8 G9+29A0
42 .29A := +28 4E452 ; 2538 8:53 <<9R48 89B 428 4:K
.9 ; 2538' ' ; = 83:B ?920 5: ; '?9' ' ?92+?92 .4*
4GB 34 4 58 &= 83: B2' 5' <:B32 95 5: ; ' = 83:B ?92'
' 2B ; 2 42 J4:+:J 2' 2BB 58 = 83:B ?9280 .:9.=28
32BB283B280 ?9' 2A 83 253 "' + ' 89B .2 49 J+:G2 "' &4*
<:?92 :9 .: ; ; 25.2 &= 83: B2' LL 2 539B2 = 83:B K
?920 <2 539B2 ?9' B2<B482532 :52 .3 :5 2 ; <B95342

6-(%*-'"(0"'#"*/' 4'*$0/"' '&0 +8%6*&*7-" *!' '
10&&#7*'-"'NN "'+" #!0'26-%'"*%!"' *&*//" 6-(%*'-K
,!"'2*&*//" #*/% &" $#%"(% *+# #1!/' ;0(@'"&-"$2*/@
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"(% !/" 2*&*//" 6-(%*-,!"'NN d &-' (" #-% #!02%-*/('
#1#."/"+"/%(,!-/" (*/%4*-/%!/'4'*#!-%#" 1-+0@
7-/0%-*/' 0 $*/# #"2" '*+0/' "(% 6-(%*-,!"' !9"%
6-(%*-,!"' N -;2" 6-(%*-,!"' '*+0/' 6-(%*-,!"'
4-"2"' '*+0/' #*/% &" (!9"% "(%-'# #" 16-(%*-'"'*!'
(0'0%%026" ' 16-(%*-'" .0/6*" "(% !/' '*+0/' 6-(K
%*-,!"'S" (!-(4"'(!07# ,!" 2"%%0 4-;2"U&" '0/@
,*-(' #!' 4'"(-#"/% #/0!&%J .0!#'0-% +-"!0 ,!"
%*!%(" &"(4-;2"(6-(%*-,!"(#" 60["(4"0'"' *!
,!!*/' 4*!'0-% %'0-&"'"&"(4'-/2-40!:' #.#/"+"/%(#"
/*%'" 6-(%*-'" #0/(2" 7*!%' 9 = ' B ' ,
! ' ') 0*#% AMY NN / #-% #0/(!/' ("/(0/0K
&*7!"'4"'(*//07" 6-(%*-,!"'NN 0+-&-#'"+"/%' "&0
"(% 6-(%*-,!"' 2"&0 ("(% 40((# 2*++" 9" .*!(&"
'02*/%"'NN YF Q!-' "(% #-7/" #" 16-(%*-'" *'(,!"
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0&*'(4'"(,!" *60,!"9*!'9" /" +"##$*/#(4"!%@
#%'" 40(0(("< 2"/%'2"%%" "(4;""#-/%#" ;% ,!'"&"(
4&!(-4-&-&"'044*'%(0."2!/' 6*++" (-":%0*#-K
/0-'"U 04*&"*/' !LJ &0-(("/%'2"!:' ,!-' */% 044'*@
6#5 -& /18 0 '-"/' #16-(%-'" #0/(2"%%" $*!&" #"
$0-%(+-6!%-"--:' ,!"9" 044"&&"'
%' 6 4' YMB' F #' ' -+4&" /0'0%-*/' #" $0-&(
#0/(&"'!" *'#"'" "% 0."2 &" !'(2-'2*/(%0/2"(' *-&'
16-(%*-,!"' #" 2"%%" 0$$0-'" "% 6-(%*-'-,!" %"(@
2!'-"!:' U#" 1-/(%'!2%-*/' (!" &"(' %0%(#1 '0-(*/J
044'-% #"(26*("(-$-/-"("$-% &-'"'&" #*7+0%-,!"'
@ ? ' M ' Y ' 0-'" 16-(%*-'-,!" #!/' (2-"/2"'
":4*("" 1*'-7-/"%"4% (!22"((-$#"
2"%%%" (2-"/2"'NN 16-(%*-,!" #!/' +"%'&0 2*&&-%-*/
#1":"+4&"(#" 2"' +#%'#0/(&"(#-$$#"'"/%(-"2"(#"
&0 #0/7!"' NN & (" #-% 0!((-' "/' 6-(%*-'" /0%!"'"&"'
"(0/2-"/(*/%"/%;-;'%'0-%;' 16-(%*-,!" #"&0 -"%%
#"+"!'(#"(0/-+0!:'#" &0 2!&%!!"'"%#"(!(07"'
#"(4&0/%"("#" 4*'4*4-;(%"#"4'*4*4-"("1" +4&"*+%"'&!" #"(+-/;@
'0!:' ' ' ' ' I #-(2' !!'%'-' 4'A
' ?' 0%' ' 6-(%*-'"
& Q ? D-@(%*@'-@["+0/E0#B '&I !!/
(%8&" 6-(%*-,!"'(0/(0!2!/'*'"/"/% ;%'0/7"'"40"
44'(-%-*/' '*'0%*-'"+"/%' 02*/%"'" !/' $0-% 6-(%*'
'-,!"+"/%S" .*!($-(0.*-' -& 0 6!-%9*!' (&"
+0!.0-(;%0%"!'91;%0-("(" (0.*-" 6-(%*
'-,!"+"/%' (0/(!('#"$-7!/'(0/'"/%02*!%'"
&0 ."-%"' N =' 9!-&&"%' MMY
' F /' (" 2*/$*+0/% $0-%(."-%0;&"(&U1"+@
4""!'J (1"(% 4&0-%0+"""+"'/%#" &0 2*/!-"/%#"/%'"
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40" "+4"'!'" U A YJ' ' "N#"= ' B 3' ? '
' 4' YY' / 0#+"%0/% ,!" &" +0/07"
#"(4' ;%"(" "#% ;%' %*&;' ;#0/(&0 4'-+-%-" 7&-("
2" ,!-'"4"/% &"(*!%"/'-6-(%*-,!"+"/%' -' 20
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26-'!'7-"' 2'0("+"/% &-/;0-"' "1"(% @#-'" *4;'0@
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#" 26-'!'7-"' /(%'! +"/%("'.0/% ' 16-(%*%'-4(-"
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+ ;#"2-/"' */%02%-*/' $-;'-&&0-'" ,!-' (1*;("."("(!"
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' # $ ' G'M3' %-((!'%"%#*2"%"+;&"+"/%
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"+0-/('#"(02%"!'(' ,!-'9*!0-"/%#0/(&"(;+!$@
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2*++" 2"% 6-(%*-'"' ,!-'9*!0-"/% #".0/% !7!(%"'
4"'/0-%4*!'!&-'&"(044&0!#-((""+"/%(," 4'*4*(#"
7!0%' "+4"'"!'" 9 J ' = 'MI
' F !9*!#16!-'"*+;#-"/'+0-(0."2 !/'("(/%!"
+ ;4'-(' /' .-&' !/' +-(;'0;&"(6-(%*-'"*/' S" 10-' .!"
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2*/#!-%0(("-/(!.*!%("(-"!%/*4*!'-#"(%-%!"' '26' M
0-/% 6"+0(#1 ,!-/#*/%&"(+"!'(0.&0 0-/%
;-"/'2"&"(6-(%*-'&"(0&.-/' 9" % +4"'%!/' $'%%0' 0-'%
+0(#1 "&0.0-/'"90+*'+0-(2"+;+0!:'.- ,!-&&0'0%"%'(0/
/"2*'-/-/%-6-(%*-'"' 0&0-/ "+4"'"!'"-&&"!'#"% ,!"' -"
4*!'"-%" ,!" &" (-;&"" (0/'(%'0/7"'"-*!(&"-&-((- ! '
" ' 0 ' " " * NN -7'$-46;+;'"6-(%*-'"/'
,!-' (0&%(*/' ;&0' 4"-/" 60,!" 6"++" -."
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$-0-% 9*!"!'@#" $&-&%"'
% M D-@(%'-@*@/O@91E 0" 4&0-@
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40'%07" "/2*'" +*/ %"+4(5 /*!(0.*/(9*!M !/"
4-$"2" /*!."&&" / 3 = / (+0'(ARB
?; *-&- 4&!(,!"90+0-(#0/(1&--(%'-*/07"5 91"/.*-"
+#&-" 0 0'-("% 9" '"2*-(&0 *,!"%%" 4!/-" "
= & B 9!-/ I AR @
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% D-@(%'-HR@/-"E #*&*7-(+; ,/-
(" #-% 40" ##/-7'"+"/% #" m %0% #1;-(%'-*/ #! +"K
%-"" #" 2*+"#-"/ 8 0 %"& #" 2"(+*%(,!- .-"/%
"/ #'*-%" &-7/" #! '*80!+" # 6-(%'-*/-" "% #! 4!-(K
(0/% "+4-'" #! 20;*%-/07" 8 < /,
! ,7 A - +0'(BR) 4
D - (! , 1 '
\ + Q -% D-@(%'- *@/-@[1E 6 Q/- 2*/@
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10'#*407" 6-(%'-*/-,!" /1"(% 40('-26" "!2*'/##-"(5
%*!(&"(9"!/"(7"/(,!- */%&0 '07" #"(."'($*/%
#"(%'07"#-"(##(,!1-&((*'%"/% #! 2*&&#7" 9
= 9 B 0.' AM) W X
% - D-@(%$-@*@/#E 3 "'+" #"
4&0-(0/%"'-" S*!"" &0 2*+##'" SH6-(%'-*//" 4*!"
+*/ 4&0-(-' (0/(0.*-" /- 20;0&") *'0-/#'" /- 20K
4'-2" 0 "((!8"' 9 = A 2 4 M +0-
ARB 0 2*!"#" C!'-"+;"'7 '".-"/% -2- 4*!" 6-(@
%'-*//"" 0."2 /*!(# 3 S
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D-@.#'E NN F 0-(*/ ,!- (!-% &1OX@E
%*+/" "% 4'#2##" &" 4'-/%"+4(NN 1;-."" 0(%'*6*@
+-,!" ,!- 2*++"/2" 0! #" ##2"+;%" "% $-/-%
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+"/2" Y &0 $-/ #" /*."+;'7 "% (" %"'+-/" "/ $#@
.'-"' "% ,!- "(% &0 4&!($'*-#" #"((0-(*/(5 21"(% Z"
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40((" (- -/("/(-;&"+"/% ,!1-+ 6-."") &0 20+40@
7/" 2"&0 /1"(% 0$$'"!: ,!" #" &*-/ " E Y "(
22"!'((*/% (0-(-(#1!/"9*-" (*!#0-/" 40" &0 7'-""
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A 9 0/# %*+;" 0.0/% -9!1*/ 4"/(" Y &"
+!/-'5 *!-(8 .-"/%@40' #" S*/7(##%*!'(5 "% &0
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4 53 + ; 9E 82 8;8:5 LL :B3 G 25 GB 3 := +28
G 3 ;2538DB2 :=253 @L 2B;2 4& JB .9+39B2 K
G:9B ?9&:5 4:552 9A 32BB28 E 53 &G E2B L# E2B*
5 .=2 :9 G E2B5 J20 ; + 5J2 42 82 J+20 42 B: ;2530
4& E: 52 :9 4&:BJ20 82 ;2 42 G:552 =29B2 25 9*
3: ;52 <:9B E: B 95 < 39B J2 4&= E2B 5 + 54B2
23 25 :B; 54 20 :5 5: ; ;2 +58 95 ;2+ 5J2 42
E28.20 42 82 J+2 :9 Q :BJ2*?9&:5 8 ;2 42 G:552
=29B2 25 932 ;52 23.< &:5 .:9<2 25 @9 ++23 L *
J ;2 42+ '83 G:+ 3 :5<:9B +28 5 ; 9A ?9 < 88 53
B:34 23 & 93: ;52 4 58 +28 < 39B J28 LL 8:5
<+9 2982 428 B J :58 ?9 5:A +28
- A9 6 (&283 H& ; :9BI .= B3B2 H<B 8:5I
Q@9 <B 8:5 H+2 <B 8:55 2BI 8:9+ J20 B 532 ;8 <+ 58
42 :B3 RE2B5 J20 < Y Y 4 RE2B5 J20 "
0 41 *, + 52 ;2 .= 53 4&283 5 42
B:98220 2 B: 49B2 52 42 32B58 4&= E2B5 J20 5 1
X *+ 3 9D32 ; 3.9 ;04 58 9 ;32A32 49
.+ I 8 .+20 42 1 , QE:R 9 @
0 Q *E B*5 +0 5 * &/0 6 HI $9
<< B3 253 &= E2B 28 B: 48 = E2B5 9A HL * #
<@0 2B ;2 B B4+ 28 = E2B5 9A0 +28 JB 58 ?9&:
82 ;2 <254 53 +&= E2B
- # 0 AE 6 8 28 52 J28 =RE2 ; +280 5 0
"F0 * 5 R <:9BB 82 ;2B 3:93280 82B 28
G+248 =RE2 ; 9A ?9&:5 E:94B 0 a Q W
- (!0 3 1 C & 5
42 1 QE:R 9 @
3 # Q *E B*5 *8 :5/0 :R Q:
2 ;<8 B: 4 <254 53 &232
/
0 Q *E B*5N0 5 2/0 " " 4&= *
E2B52B LL 0 S85=2 4& JB .9+39B2 28 32BB28 = E2B*
5228 23 G 25 <B < B 8 LL 2B ;2 42 ; B 520 32 D
= E2B5 20 .N32 ?9 8&283 .:9E2B32 42 52 J2
3 # ! Q * 2B*52* ; 5/0 6 2 4 3
?92+?92 : 8 <<9B G + 2B5 3 :< D D
Q *E2B*52/[9 5 LL 882B &= E2B0
+ ; 9E 82 8 8:5P + 82 4 3 428 3B:9<280 428 5 *
E B28 : ; ;2 2 <:B3 5& 3 3 < 8 <B:<B2 <:9B = *
E2 ;2B0 + <+9< B3 9B253 4& E 8 42 82 ;233B2 25 ;2B0
0 ' 1 &* " AAE 0 Q 28 J +GB28 B2*
E 5B253 &2 ;G:9.=9B2 42 + 2 520 ; 8 2++28 5&R
<:9E 253 < 8 = E2 ;2B0 < B.2 ?9& + 0 3 3 5 .288 B2
42 ;233B2 42 32 ;<8 25 32 ;<8 +28 = 88 58 82. <:9B
E 32B + .:BB9<3 :5 428 2 9A0
D 882B B= E2B0 25 < B 53 42 .2B3 58 9 *
; A 2332 ; 5 GB4 4&= E2 52B 8:98 + 52 J2 B28*
82 ;G+2 :B3 .2++8 42 + <2B4B A G+ 5.=20 4:53 5:98
E:98 4:554 &= 83: B2 8:98 +2 5: ; 42 + J:<2420
8 3 0 < "C"0 @L 0 3 2B ;2 4& J .9+*
3 B2 # 2 ;2B 428 32BB280 +29B 4:552B ; + G:9B
E 53 &= E2B NN &= E2 ;2B0 / 6 &2A<:82B 9A
<B2 ; 2B8 ; :+480 5 42 8&R ..:939 ;2B0
* - +8 A ;68 H@2I E:8<B ?92 E:8 B23: ; 8 E2B8
+28 <+2 58 H<+ 528I 4D 54B2 :<+2 23 +92?928 E:8 RE2B*
42MJ0 : + + JB 53 <+ 538 42 3:98 = 2580 < **
W 0 0 D": 28 HG.29 I ; + E2 ;2M
5 " P7 283 + 882M0 .= 23 H3: ;G2I 25 + E: 20
. ,/ A 1 ,7 * 3 0 < " 7
28 =B2G 3M E +4B: 253 +2 ; 5 23 82B: 253 +2 <+98
<2B ++:828 E2 ;2B0 ' 1 "D *8 B 20
3 B < C" 3 3:932 + 32 B24&253:B 82 B254 +9 0
23 + E2 ; 25 .2+ < +80 9 :77/ NN AE 6 8
<328D\ 423B 3 ; 42 S2BA 80 8&283 53 3:932 + +:33
42 & B ;32 428 B2.8 B23 B 2 <:9B =RE2B52B 9 <:B3*
42 J 8480 $ 70 :B8 D:5 B2=:92B +
E J52 42 + 8:B32 42 \=:9B J20 4 32 =RE2B52B0 <:9B
+ 8 +8450 : ? ;EF 3 8:53 B2<932M +284 38
G:29 8 : G 8328 E: B 283 RE2B52M 2 + 952 4 8 ;2B3:
?9 54 +8 :53 +:J4 23 :53 2834 +2E 56 23 .:9.= 58
49B =3 &RE2B0 <V ?9& +8 R253 <B 5 +29B < 839B2
93B2 " W 0 < FF
- (! B:E25J / 28< J5 /
-%0& / , &0% 1 QE:R 9 @
Q=:/0 6 L 0 2B3 <<2+2B0 E2B3 B
#: 252M . #:+ 3 =:Z ?92+?9&95 @> 0 A*
<B ;2 988 D 3:552 ;2530 & 54 J5 3 :5 #:> ?92+
.:9<Z # 5.2 82580 + 82 .:5 :54 ?92+?92 : 8 E2.
:=0 23 +2 <+988:9E2=3 :5 +2 B24:9G+2 <
?92++2 4JB ++ B420 ! > 0 , * ,
?9 428 429A .32 B2^ V 0 " 2 5&283 < '
<B:<B2 ;253 <2B ;233B2 +2 492+P 9 .:53B B20 + +2
.B: 3 32++2 ;253 4 25490 ?920 <:9B +2 B254B2 <2B ; 80
+NE 32 42 4 B2 ?92 2&25 8: 3 ; - #:Z G:Z 4 3 +2 <GB20
E: 8 .: ; ;25.2I < 5 3B2B0 [&25 8 B E 0
0 / E+ # :0 .: ; ; 542 ;253 428 .= BB23 2B8
<:9B B2 BB 32B +29B8 .=2E :A [[6 B2 428 =
23 428 =:0 E:R LL I 2B ;2 42 E 52B 2 # :0 +:0 :0
+:0 +: : :Z 2B ?92 +2 E @2342 ; 2B2 ;<+: 2 +2 ; 3 5 D
0< 54 '283 9 G: 80 <:9B 2A. 32B 8:5. 25 +2B 42*
E 53 23 82 B G 33B2 428 G 32B V< < 882B: 53 LL#:
=:0 .B < B +2?94 95 2529B <<2+2 95 . ; B 49

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A' ' D*@&*@%!@'-@#1E ' (' ' " , ' &O((" #!' ' H "' 0/-+O& 080/%'&" 7"/'" 6*&*%6!'-" 4*!'" %84"

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?' D6*+1E' K' Q!-' ":4'-+"' &"' #*!%"' &O' #"K $-0/2"' *'/' 2"&&"@2-' /1O' 40(' %O/% #"' 7* % 4*!"' &O #04("' ' ''H(*-?' M' *+7' &"' 40!.'" 6*++"T' -&' +"' $O-% 7'0/#14-%-"' 9 0 , ' - ' M

$' ? ' 4'-$-:" , !-' (-7/-$-" 4&O/' 4&O%' "%.-"/% #!'7'"2' M4OOMP' &", !"&' .-"/% #" *7#3' '&!/-' &*' + +" , !"&" 0/(2'-% ' "/("+;&"

%' ? & & %S ' D*@+O@&*@7'O@&-@[1E ' 6' "'+" #" 7H7'046-"' ' *9"2%-*/' 6*+O&*7'046-, !"' 4'*9"2%-*/' 40'O&&"&"(' "2%-&-7/"(

' # $ ' *+0c* ' "%84*%4(-. ' %'02"'

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0;' 5' 6*$ */g' /, ' ' ?-&/" #g0'#(' &"' 6*@ /0'# #-$$"'" #" &O' &O/7*!(%"' ' , ' ' /, ' 0%'"-&&"' 0."2' &O, !"&&"' */' &"' 2*/$* # (*' %' 40" ("(' #"!:' 4'"+- '"(' 40%%"(' #//(""(' "%' "/'$*'+"#" 4-/2"(' %% O++&-;'"+"/%' *!7" 2*++"' !'-'6*+0'#" %';(@'*!7" #!"+;0''0(' #" 6*/%"' "%2@ N&"' 6*+0'#" &O/%$*'%' "+4&*8(' "/'2!-(-/'"(' "(%(*!."/%#" (*+@ 40'0-(*/' -' .*!(' +"%"!' <' 9"' 4' M$;'" "4*("/"#O/(#" **//"%'"' .#7H%O&"' "% /*/' #O/(' 2"%%"' 7&O2"' U&"(' 7&O2-"'(' #" &O' !-(("' *' !/' +O'-9O&*!' &O.3-%"/@ %'O&/# 4*!"' (" ;O%%"' "/' #!' "& (O/(' % +*-/(S' *-' 9O!'0-(' 0-" #!!/' 6*+0'# , !" */' 2*/("'." ' * ' ' 0 9

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b ' ?' (407/' 1 ' 6*++"$.*8' @: 2*++" (-' #-% -26"&"%' 2"9"!' %O-% (-' ":2"&&"/% , !!-& #!% 4*'%"' &" /*+' ' % ' 4&!%#%' 2"&!-' , !-' $O-%9*!"' ' (1044"&O/% 1 ' -*++"' /1"(%@2" 40(' (*/' /*+' , !-' O' 40((' O!'S"!3

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' R ?' 4%O-O' 2*/." 0%%O!/' $-O%%O/' $*!' -' &O' 'O!/ -/!'% 4%O/(%-"(' 2-"5 0/' #-(2*!'(/"' $O!%' 4*!'/*(' ' "(' &"(' O!%" ' 'O!/%-, !%&"' !("(' +"' #!' 4!'-$!"' ' %O+4#O/' ."-/' #!' $" ' ;'O&"' /"' 0!' &O 2"' 4 ' 2"'%"/#"' 4 2"(' 0!' 2'!' 2+"(' 4*!' "(' "!:' 2"' ;&O(' $*!#-/"' %"' 4'*4'"

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[illegible]

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5&283 <2B8:552 Q< + :82 'LL 5 4 3 4 58 +2 ;G;2
8258' #: ; ;2 E E 530 =: ; ;2 ?9' E E2 5&:82B 3'
G8:+9;253' &=: ; ;20 3B2 =9; 5 25 JG#
5GB +' &=: ; ;2 G+2 23 GJ2B 8 58 95 82.:9B8 4 *
E 5 '0 A ' 0 N0 B 58 29 23 J B42
828 .: ; ; 542;25380 . B 2&283 3:93 &=: ; ;20
' !,*)' %C ' 2332 JB 5429B ?92 5:98 4; *
B:58 42 8'+: 5 * '?92+?92 .=:82 9*428898 4'
$& ' 3:9.=2 ; : 58 VI9 54 :5 R 283 5G0 ; '
$ ' 9 ' &=: ; ;2 25 828 < 88 :58 3:9@:9B8 2BK
B 53 8 58 J9 42 ' G28:5 ?9&:5 +9+ ;2332 23 +2
;:B8 23 +' GB 420 ' # ' A' :50 .B: 8*; :+0
=: ; ;2 283 GB2 9 ; : ;253 ?9& + E293 G3B20
3C=9' ' , , ' ' ' &=: ;5 2 283 3B:< G+20 =G#
+ 8 <:@ B 4: ;<32B+'5 39B20 5' C " ' 0 C' :93
25 +9' 5:98 < B93 G3B2 9*428898 42 =: ; ;20
' #" ' E0 " ' :+' <293*G3B2 $&
< B 3 ; 8 =: ; ;2 < B 3 283* + =: ; ;2 42 +'
5 39B2^ " " , ' ' . '90 NF' &=: ; ;20 23
89B3:93 =: ; ;2 583B9 30 5&283 <+98 95 8 ;<+2 5*
4 E 490 + B2<BG82532 25 JB 542 < B3 2 28<G:2 =9*
; 452 253 GB20 ' J, ," ' 3' E0 <' AAE'
&=: ; ;2 5&283 =: ; ;2 ?92 < B.2 ?9& + ' 89 82 BG9*
5 B ' &=: ; ;20 " ' . ' ?' ' $9 54 :5 E 3
+: 5 42 =: ; ;20 :5 .B: 3 =: ; ;2 ;2 +29B0 ' '
' 2 +' 5' =' =: ; ;2 25 E 5 82 B2@2332
25 BB GB20 :B8?92 8:5 < 24 8253 +2 B: 4 49 .2B*
.92 +0 # ' 9 ' ' 1 ' & 583 5.3 42 8' *
G+2882 H42 &=: ; ;2 283 8'3:932*<9 88 5.2# :9B
+9' 582.32 3:G;2 283 95 :G@23 4&2 B: F' 8 +2
8.2<3B2 49 J+:G2 283' 532+ J25.20 &=: ; ;2 8&5*
5 3 ' =: ; ;20 23 +' 32BB2 '8:5 B: 0
$' ' 9 E: 8 ?9& 9A G:B48 49 & GB2 23 49 + 23
49 5J20 5 3:98 29A0 25 3:98 32 ;<80 8:98 428
; 8Q< 28 Q+ E2B80 &=: ; ;2 < B3:93 283 &=: ; ;2 '
;' A ' 0 " ' ; :58 4:520 ; :58 4:52# 42
&=29B2 9J 3 E2 #G3:58*5:980 @:9 88:58# &=: ; ;2
5& ' <: 53 42 <:B30 +2 32;<8 5& '<: 53 42 B E2# 5
.:9+2 23 5:98 < 88:580 " ' 1 0 "^' 2 BGE2 + 5K
.2B3 5 4&95 G3B2 ?9' 8& J5:B20 23 28< .2 5 5
8&:9EB 53 42E 53 828 R29A0 2 +:5J B2J B4 42
=: ; ;2 532BB:J2 53 +28 . 2?A0 " ' G' 0 "F'
' &=: ; ;2 55:.2530 4 ;' 23 E2 E 53 +2 <G.=G'
&=: ; ;2 55:.253 9B 3 3 3:9328 828 4G+228 42
&253B2325 B E2.' 290 ' ' 0 '
+ ' G8:+9;2530 9 <+9B 2+0 +28 =: ; ;280 +' 8:*
Q G3G0 +28 B <<:B+8 428 =: ; ;28 :53B2 29A' :5 49
. : ; ;2B.2 428 B28 23 42 +'8:Q'G3:' 428 =: ; ;280
.28 ;28 8 58 :B.2 988' G25 ?92 8 58 :'?9' 52
8 E253 < 8 B2325 B +29B +5J92 54 8.BG32
!,* '#C 0/(' &" (&;2&" : '/*!(' (*++"(' &
$-D!%$!-" #0/(' &"(';*-(' "% '"/*/2"' 0!:' 6*++"('
DRH " ' ! '-.'!' '8' 0 !/" '7'0/#" #-$$"K
'"/2" "/%'" &0' 2*//0-((0/2" #" 16*++" "%' &0' 2*/@
/0-((0/2" #"(' 6*++"(5' 4*!" 2*/;0%%"" 6*++" -&
(!$$&% #0 (1;%!#-"' (*-@+;+"' "
' $ ' :- ,/ ' '4' M '#0/('
' ".0/% -"!' "% #".0/% &"(' 6*%6+"(' $"' +!&" 428
D-;2&0-0%-*/(' #!'9!'8' ' ' 1;%'" 6 +0-/' 2*/(-#;';'
#0/('2" 2$!1-&' 0' #" (!4;--"!" '&0' ;%"' % (*/' (0&!%
42 :;2! 44<254 42 +' <2B32 4&9= =: ; ;2 ' :5
+ 3 +2 508 ;' 4&=: ; ;2 ' ?9' 5&' B+25 4&=9; 50 '
23 JB2 +3GB2 42 3:93 +2 8 5J B: ; 50
'F' 5 < +25 5:98 <<B254 3:93 .=BG3 258 ?92
5:98 8: ; ;28 '>2 5& '@ ; 80 4 3*+0 G3G < B; '+28
=: ; ;28 $92 @2 5&25 8:8 8:B3' ; : 58 =: ; ;2 23
<+98 GB93 +0 " ' $ ' 0 ' = G 252 ?92 E29A#
39^ < B+2# 8*39 +2 .:29B 4&95 =: ;2^ 28*39 +8
42 48 B^ '>' ' '5 0 " ' R' ' 428 5 39K
B +8 R :+2538 4:53 +' GB:2 3G 82 44E2+:<<2 42 G:552
=29B2 23 ?9& + 93 82 = 32B 42 B2 =: ; ;28 <:9B
5&G3B2< 8:G+ J2 42 +28 25.= +52B0@' ' 'V '5'
' 2 5&283< 8 G3B2 =: ; ;20 2&283* *4 B22&283 G3B2 G B*
G 20Q 2835& E: B59+8253 ;2534&=33; 5 3G LL'N' 58
+28 '2'42 & .B35B2' 28 25 5 8 428 =: ; ;280 +28
=: ; ;28' $9&283*.2 ?92 &=: ; ;20 N JB 54 290
?92 E:98 R:98 25 8:9E252M^ <9 ?92 8:53 +28 25*
538 428 =: ; ;280 ?92 E:98 +29B 328 &=:5529B
42 +28 E 8 32B^ ' "60 ?3 ' "
' B3.9+GB2;2530 .29A Q@9' E E253 4 58 5?9 3G'
' #: ; ;2 82 4 3 42 >G898* =B 830 < B ++98 :5 9
;R83GB2 42 5. ; 3:5 ' 2 +8 42 29 8&283 3
=: ; ;2' +'283EB ' 29 23 EB ' =: ; ;2'LL &#: ; ;2*
290 >G898* =B 83' 58 .2332 ; 88 :5 42 290 23
42 >G898* =B 830 8:5 +8 95 ?92 23 &#: ; ;2* 290
" 'B ' ' ' # 7 ' ! ' 0 <' FC'
5 4:B 329B #: ; ;2B 29 B254 <+98 42 J+: B2 '
+ '4 R 5 3G0 ?92 3:98 +28 8 G.+28 23 3:98 +28 <29<+28
4:+ 3B28 52 +9' 25 E 253 43G0 % '&/ ' . # '
>& 3B J2 '4&95 B B2 5=9; 5 &#: ; ;2* 29 B28K
< B 53 ' <2 520 # ' , ' ' NN 2 +8 42
#: ; ;20 >G898* =B 83' 5 4G+28' E:98 3B = 882M +2
+8 42 #: ; ;2 < B 95 G 82B0 ' ' 0

' ' 1 *++" #" #*!&"!'' S"(!(@ ;'-(% #0/(' &0'
0((-*/' ' +*/' 0!."!'& .*!(' /10!'-"< #*/" ;%;
++" #" #!&"!" D4-" 4*!" /*!('0!%*'-("' ' ;%'"
#"(' 6*++"(' .*&!4%!"!:'"%("/('!"&('
0 'NNA!' "' +" #" #;.*%-*/' ' 16*++" -/%;@
'-"!'' 6*++" (4-'-%!"&' &0' 40'%-" #" 16*++" ,!-
0440'%-"/%' '&0' (4-'-%!0&-%;5' 6*++" 260'/"&' &0'
40'%-" ,!-' 0440'%-"/%' '&0' D#-0-" "%0!:' ("/('NN 1"(%
!/' 6*++" #" $*'%' -/%;'-"!'' "1"(% !/' 6*++" %'"(@'"%
2!"-& 'NJ " .-"-& 6*++"' ;%0% #" 6*++" 4;@
26"!"0.0/%,!!-& (*-%'"/*!."&;' 40" &0' 4;/-%-"/2" "%
&0' 7' 2"' 0260/% ,!" /*%'" .-"-& 6*++" 0 ;%;
2'!2-$-;' 0."2 &!-' ' -;&" 0-/% 0!&' 4%%'('
,7'< '.-'M' & /" $0!% 40(' 0%%"/#'*' -0 &-;"%;'
"% &0' '"%'0-%" 4*!" &' .0-/2"' &" .-"-& 6*++"' # '
%'O '4' A' ' ;4*!-&&"" &" .-"-& 6*++"' "% #;@
4*!-&&"" "#!' .-"-&6*++" '("#;$0-'" #"('-/2&-/0%-*/('#('
&0' /0%!'" 2*''"+4!" "%' #0/(' &" &0/707" $0+-&-"'
"/*/2" ' "(' ."-&&" "% ' ("(' +0!.0-("(' 60;-%!K
#"(' ' /' "%'*!. "% %*!9*!'(' &" ."-&&" 6*++" ("#-%
#!/'6*++" ,!-' 70'#" %*!9*!'(' "+4"-/%" #" 2"
,!-&' "(%0!' $*/#' NN *!."& 6*++"' *!' 6*++"
/*!."0!' &" 26';%-" "';7;/;' 40" &0' 7- 2"' *!('
/*!(' "%-*!."*/(' %*!%"(' #!!/'2*!4' #0/(' &0' 4'-;'" #"
/*!."0!-' 6*++"(' 0 '
'Bd /'(" #-%40" '044*'% 0!:' ("/%-+"/%(' 0!:' 40(K
(-*/(' 0!:' -/$-'+-%;' -/6;'"/%"(' '&0' /0%!'" #"
6*++"' " ,!!-&(' U&"(' '*-(J 4"!."/% /1"(%' "-"/5 -&('
(*/%'2*++" #"/*!("(*++"(' ;'-%0;&"'"/%#"%6*++"
%' +"!'"/%2*++" #"/*!(' ' 'D' 0'0-(*/'(1"(%
%'*!;-;" "% +*/' $0-;&" 0'40'05 ?0-(' 910-' #;4**-&&;'
6*++"' "% -"!' +10 ("2*!'!' ' 9 ' .' Y'
6' 4*!' ;%'" *+0-/' 9" /1"/' (!-(' 40(' +*-/('
6*++" "5' S10-+"' "% 4"!%@;%'" 4&!(' ,!!*/' /10 90+0-('
0-+;' "' # ' /' ?0-(' 40'+-' %0/% #16*//"!('
.*!(' ;%"(' 6*++" "/$-/' ' $" ' . ' S" (!-('
4;'" +0-(' 6*++" "5' "% +0&7';%0 $!'"!' ' 9
& '3' R' & (!$$-% 0Z!!$-' (*-% 6*++" "% ,!!-& (*-%
+0&6"!'"!;' -;'A " ' ' ?*/"+4-'" "(%#;@
%'!-%(-' 6*++" "(% ''2*//!'-/' - ' . ' 'NN'
"/%'" ;-"%-#" 6*++" #0/(' 2" ,!!-&$0-% #0/(' 2"
,!!-& #-%'"%2' "1"(%@ @#-'" -&('&-.'"' ;-"/' ,!!-&&0((("
4'*$"((-*/' *!' #" (07"' #" 4-;%' ' #"(' +*!';
+"/%(' #" 40((-*/' &0' 4&!(' +0!.0-(" #" 2"
6*++"' -&' (" + &" %*!9*!'(' #" 6*++"' #0/('
/*(' 02%-*/(' 2!"(%@ @#-' ,!"&,!" (07" ,!!*/' (*-%
/+/%%"%*' 9*'('(,!"&,!"&0-6&"(("/#' 16*++"
&" $*/#' 6!+0-/' Q!0/#' */' 4%&" #" !/' &0'
/' "% %'!." ,!!-&' /!!/' 6*++"
0 ' %' & '4') ' ;#-%' +' ' 16*+-+"
4"'2" #0/(' &" 46-&*(*46" ;/",!"5 &0' 46-&*(*4
46-" /10/;0/%-% 40(' ("(' ,
' ' ' ("4"'/#' ,!"&,!"$*-' 0#9"2%-."+"/%
"/'2" "/(' &' /18' 0' ,!"&' "'*-#" ' !/'(("!!"/%"+"/%
#" /-."0!' 0."2 .*!(' 40'2" ,!" "1"(% #" %*!(' &"('
A ," , ? '9!-/' A 'NN d /' -/#-.-#!' #" &0'
'02" 6!+0-/"' *!('&"(' ("2"(' (*/(' 40(' (-'6"!@
'"!:'D9!" 2"&!'-#! !7!(%"' "% 6*++"%#*/%&0#" +*/#"
0';"(*-/'1"(%40(' ,!"&,!"$*-' "/2*/%'"'0' ^ '!'
' ' #' ' ' ' /18'0'4*-/%#16*++"(((;(
6;;;%;("%(-' (%--4-#"(' ,!!-&('/ "(*-"/%2040;&"('#!0'@
'0/7"" ""/("(' 40'*&" #" #-."'/"%;'"/%"'2*+4*(;'
!/'#-("(**!'("' 'A ' ' *!""7'0/#" ,!""(*-"/%
&"('*-(' -&(' (*/%2*!'0;" ' ,!"'/*/('("(' &0('4"!' $"'('
%*+4"!' 2*++" #"(' 6*++"5 ' ' ' ' -' M'
Q!0/# !/' #" ;%"' 6"' $-%!'"' $*!' #" /*!(' 60-' ' '
0 4 0 "> 1"(%&-/#0-' #" ("(' 40'*&"(5 !!!' 6*++"
044'"/# '.-.'"&';' > " '-' M' "$!%0&*'(' ,!" *!-('
U&"*'-J40'!%"#"4&!('7'0/#"4&!(' ,!" (*/%!0&*'-
40"&0' 4*!'#-/"'&0' 0.-%%0-/"(' #" 16*++" !"'0!*
40"2"!:' ,!!-&$-$$0-'' ' ("(' 7;/;'0%-*/(' 0!&0'
(' 1 ' ;' #0/(' /*%"'"' (-"2&2"' !/" #;4-%!"
(4"20&,!" #" +"'" ,!" #" 1"(% 4&!(' (0."!:'
"1"(%' !/' 4*!"(' 2"&!-' "/-;&'"(4'-%"%-/(%'!-%"%' !/'
/*!."0!$!/' 4*!' 2*/(*&0%-*/(' #"(' 7;/;'0%-*/(' (!-." /*!
+"!'"/%2*'+"2"&!-' ,!-' ;'-/%0/%!' (0."/%'0.0/%
&0' '0/%;' *!('4'&4!(' 0.-(;' #0/(' &0' 4'0%-,!"
&0'4%;' #!' '0(*/' #" !/' 4;' #" '"&-7-*/' ,!!-&
#-(%-/7!"' &0' ;-"/'0-(*/' &0' $*-' &0' '0-(*/' ,!-
$0-%&0' .-" #" &0' $*-'0/#' 0!%'"'"*//%'
&0' 0/#' #" $*-' ,!-' &0' $%$*%' *!'*' '0-(*/'
'/$*-*(*4-' 40'#"0' #" ,!"&,!" 2"!' 0' ;-"/ &"
2"!' 2*/("/%' 0'6' '0-(*/' ,!-' (*/'0'4"'%-"(
("(' /0%!'"&&"(' ,!" 16*++" #" 2"&!- ,!!-&'0'*/'
"/("+;&"' ,!"&,!"(' 4;-"(' 0!'("&(,' '#"4 0-/(,'
/"(' %*!9*!'(' 2*/.'"2"&!-' 9&!"&"(' (0%%"/%'
0."2 ' &#4*4' 0' ,!"(' +"' ' &"(' ("(' *!-' 0"(*!,
(!2*/2' 6*%%*-' ;' ' #"(' 7;/;'0%-*/(' 2*/&0%'
(!/' 2*/(*(0'!4' @0' 2*/(0%-*/(' &*-(' ,!!*/'
;"(*-/'-' ' 0 ' ' M' ' 0440'0% #" %"+4(' 0/

[illegible]

[illegible]

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=: ; ;2 '8&25'E25J2 '# 9 E' 4&+;' 89G83 53 0 +'8 *
J5 2 .2+9'J9' ..2<320 ?9'8& ..: ; ;:42) ' +4:*
GB 54 5 N3 3 =: ; ;2 <B2825380 B '
$$ & 3B2=: ; ;2 ".2+ '<B 28 0 52 < 8 33 :=2B4& ;<:B*
3 522 =952 .=:82?9'25G+2882 395 93B2' 3'2=2B0
G +'5&'3 3=: ; ;2 S'.2+'<B_8 0 ! 1 '
'LL ; +_B2 ;2530 &28395'=: ; ;2 _3:930 .&283
95'=: ; ;2<B:<B2>4 B2538 J25B28 42 G28:J528042
82BE .28' 2 4: ;283 ?92 283 :B3 532++ J2530 .&28395
=: ; ;2 '3:93'L'#: ; ;2 =0 2A<B ; 53 42 ?9:'95
=: ; ;2283 4 J52 8: 32:'G 25'8: 3 25' ; P 4 58 .23
2 ;<+:' 9+29 424 B2' +283 =: ; ;2 0':5 4 3 4&:B*
4 5 B2P .&283 95'=: ; ;2 &283 95'=: ; ;2 =5:R2B0
'<254B20 4 ; 5 J2B0=2 ;<+:R2B' 5'=: ; ;2 =5 *
8 B4280 43B E GB280 LL ' E2.+28 4@2.3 8<:88288 80
=: ; ;2 <B:<B2 23 .:5E25 G+2 3<2?9&:5 E293' &283
; :5 =: ; ;2'>2 =2 89 8 < 8 +29B =: ; ;2' 4 29
4:520 ;28' 9EB28 3B:9<2 9AP 2 G:5 9+ :3 5&283
<+98 E:3B2 =: ; ;20 - 1 ' B0 3:' !:5K
8 29B0 E:98 328 ; :5 =: ; ;20 E:3B2 ; +2 ;&283
.:55920 23@2'E:98 4:552 ; '5 G.2 25' ; B J20
N 0 A ' 8.'42B5'LL>289 8 E:3B2
=: ; ;20 @2 E:98 89 8 3:93 44E:9 'LL B:5 ?92 ;253'
+ =B:9E '8:5 =: ; ;20 + '3B:9E '?92+?9&95 J9'
'+9' 'B E2 8:5 .+:90 ?9 '283 <+98 :B30 <+98 = G+2 ?9:'
+9' BG+290 .=2E +2B0 32 E: +4 ; + @9832' 39'
8 3B:9E4'3:5 =: ; ;20 + , ' A 'LL &=: ; ;2
4:53 + 8& J 30 4:53 :5'< B+2'>2 5& '< 8 3B:9E ' ; :5
=: ; ;2' +.:9B930 ; 38 8:5 =: ; ;2 E 3<B 8 +28
42E 538' 3+2 82.:54'?9& +3 3 4& E2539B2 '3 3 8:5
=: ; ;20 ' A , 'LL 2 4 3 42 + ' ; 5 2B2 4:53
?92+?9&95 283 3 3 '< B 95 93B20 42 .3 :5 ?92
.2B3 528 .=:828 2A2B.23389B ?92+?9&95' &28395 492+*
+832 ?9'52 ; 5?92 < 8 8:5 =: ; ;2' 2 .= B+3 5 '
G 25343 2M< 4 N :5 =: ; ;2' ' EB2 @ 952 392
8:9E253 8:5 =: ; ;2 25 ?92+?928 =29B28' +52 82
G 33 3 @ ; 8 8 58 E: B +2 ; +=29B 42 392B 8:5
=: ; ;20 2 ' '$9'283 .:9< G+2 4&952
B 942 < 2982 <:9BB 3 3:2 J +2 ;253 4&952 3 942
' B2 <254B2 8:5 =: ; ;20 = ' '&
C @9 +23 3CN ' # '3:3?0:9B8 3940 G+2884 :9 448 B ;4
8:5 =: ; ;20'>'> :988' ' 0 %C LL '#: ; ;2 4& 5*
32++ J25.20 8:B32 42 J5:83 ?92 49' AE'8 2.+2 Q R *
8/' '#: ; ;2 428 =: 80 :B 5J*:93 5JP 230 < B
<+ 8 532B 20 95'=: ; ;2 B983B20 J 9.=20 23.' &283
95'=: ; ;2 428 G: 80 =E4B 3 G+2 =: ; ;20428 G: 8'
'#: ; ;2 ; B 50 5: ;'4:554 '428 <=:?928 23 '428
; 53 58'LL#: ; ;2 42 J92BB20 95 4285: ;8 4:5548
9 * 4" ' 'Q< + ; <4428/00 4 3 988' B4J 320 23
: 82 9 J92BB 2B0 < B.2 J9++ 25 .: ; G 3 <+98 29B ' 9*
3B28 <:9B 82 8 8 B 49 <: 88:5 ?9& +8 25+4E2530
" '#: ; ;2 B:9J20)3B2 83@B5 39B2+ ?9 0
82 G5 +28 = G 3 538 42 + 'G 882 B23 J520 < B.:9B3 +28
.4328 42 .2 < R8 23 <B4.< 32 4 58 + ' ;2B +28 E:R *
J29B8 ?9& + B25.:53B2' LL 23 3 =: ; ;2 B:9J20 43B2
89B5 39B2+?9 0 89 E =3 952 89<2B83 3 :5 < B 8 25520
G 53 3 +28 9 +2B 28 23 55:5? 3 ; +=29B '+29B8
= G 3 5380 .: ; ;2 ! 4+98 52 '+' ; 8:5 42 98*
J5 5' : ; ;2 G + R2982 :5 ;2 +:J2 2<9 8 ?9 *
',B 532 580 58 +2 .= 32 90 <B 8 42 =:B+:J2P B0
;28 25 5380 8 .=2M $92 + '<:9B ;28 <2.=480 9
.: 50 4&: '+2 8: B @2 52 G:9J20 >& 'E9 +2 <233
=: ; ;2 B:9J2P 538 49 < B 4 80 B 2M <:9B = B*
+28*4 A0 # 23 3 , 'LL % ' &=: ; ;2
4& 9E2BJ520 8:B32 42 @29 42 . B328' LL N ' 2B ;2 42
; B 52' #:5952 42 G: 80 8:B32 42 ; 33B 8*.:9B3'
' B:E2BG28'> ; 8 .=2E +5' ;42= 53 =: ; ;2 5& *
;254 '<:9B +2B ' : ;20 E:R' 9 ' # ' R '
JB 542 4 42B25.2 4&=: ; ;2 ' =: ; ;2 ' LL # 4: 3 '
29 23 9A =: ; ;280 82 4 3 4&95'=: ; ;2 :B3 25*
42332'd .2 4&=: ; ;2 <:B32 E2B390 2&283* *4 B2 + '
<B 825.2 4&95'=: ; ;2 82B3 G 25 '828 B28' LL :5*
=: ; ;20 J B42 3 'E .=20 E:R' 9 ' LL :93 =: ; ;2
283 ; 25329B' LL 93 E 93 =: ; ;2 3 53 E 93+'32BB20
+28 32BB28 B <<:B3253 25 <B:<:B3 :5 42 = G+23 4 42
.2+9 '?9' +28 3 E +: BP .= .95 B2988 3 82+:5 8 '
. < . 34'LL &=: ; ;2 <B:<:82 23 29 4 8<:820 2&283*
*4 B2 ?9&:5 3 428 <B:@2380 ; 8 ?92 2A .93 :5
42<254 42 + 'E:+:534 42 29
- ' ? ' +98 29B8 4@2.3 8 :53 95 8258 4 4B253
89 E 53 ?92 +2 ; :3 ' 89 3 :9 <B2. 42' 5
JB 54 =: ; ;20 =: ; ;2 2 ; 5253 < B +2 J45 2P 95
=: ; ;2 JB 540 95'=: ; ;2 42 = 932 3 +2' 5 =:5*
5232 =: ; ;20 =: ; ;2 42 <B:G 34P 95 =: ; ;2 =:5*
5 32095'=: ; ;2 . E +0 .2<254 53 + ' 988'+2 8258
4&=: ; ;2 <B:G2' 5 G:5 =: ; ;20 =: ; ;2 .: ; ; :42
23 ?9'82 + 882 B2P 95 =: ; ;2 G:50 =: ; ;2 ?9'
'42+'G:534' 5 GB E2=: ; ;20=: ; ;2 42 + :R 934P
95'=: ; ;2 GB E20 =: ; ;2 ?9 ' 42 + 'GB E:9B2' 5
< 9EB2 =: ; ;20 =: ; ;2 8 58 . < . 34 23 8 58 B28*
8:9B.28 4&28<B 3P 95 =: ; ;2 < 9EB20 =: ; ;2 ?9'
283 4 58 + < 9EB234
'8*H'YZ ' " ' /- &%' ?? ' 1 =

' &=: ; ;2 42 G 25 283 .2+9' ?9'
<B 3 ?92 +2 G 25' &=: ; ;2 4&=:5529B 283 .2+9' ?9'
283 44+2 0!:'3: 8 42 =:5529B' &=:55 32 =: ; ;2
283 .2+9'?9'82 B2J 2 < B =:5543234' :932 +'4 *
4B25.2 283 4:52 4 58 G 250 =:5529B 23 =:5543234'
2 G 25 283 .2 ?9& + R '42 <+98 ; E2B82' &=:5*
529B 0 .2B3 528 < B3 28 42 .:5E253 :5 ?9'5& << B*
3 255253 < 8 ' 442 42 G 25' = 5 =:5543234
4&952 < B3 5& ;<+ ?92 < 8 .2 ?9& + R 0 42 .:5E25*
3 :552+ 4 58 =:5529B0 23 4& 93B2 < B3 0 ; : 58 42
J454B +34 ?92 +2 G 25'LL ' ' c '
6# ' '# : ; ;2 42 8258 4 3 <+98 ?9&=: ; ;2 42
G:5 8258' 2 G:5 8258 283 .2 ?9'283 89<<:84 <*
< B325 B '+'<+9< B3 428 =: ; ;28' 2 8258 9 .:5*
3B B2 ; <+ ?92 8258 :2B3 52 <B: :5429B :9 89<4*
B :534*4 58 +2 @9J2 ;253
' ':-d (' *'/ U9"J'(!-' *&0/%U9"(!-(6*++"
#"' *&0/#J'9"' /"' &!-'N-"'- $0-&&-'' ' ' < ' 1 '
'O I ('S0+0-(40"6*++" /"%!%%":'U%"&&" ;0%0-&&"J
%"'"%0/%, !" ;-"/ %-"/%' 1 '77 ' */% U4*!"2"&0J
"(70'##"U.!"J'9 */2)' %&-' .-"&6*++""% 9"!/"
+"(,!-/'U70'7*/(J' 1 '4' RR' !(U/!&J 6*'/(#"
260" /1-' *-(% "!' %*//0/%' 1' 4' RM' ?"+;'"
.*!(#*-%,!" &0-#" 2'!0!%# 0-% ,!-' *2-(% (*/' &-70
6*++"#"+0-/"' ' '77' '0/% 4"26# $0-% ,!-
(*/'6*++" ."!% 4'"/#'" +'; "0!'("+;&0/% +*/(@
%'"'%0/% ,!" ;-"/ %-"/%' 1 '77 ' */% U4*!" 2"&0J
U-&(J $-'"/%&0 ;0%0-&&"(!"#"!(6*+(9!7-""U"@
%/'"%%'"&0 ;0%0-&&" '#"!:'260+4-*/(J' # 7'-.'
'"+"(%U"(%"9 '("+*/#'"26".0&-"('/"$'0/(6*'/'
1 'oo 'S 4'"/#'"&!-2*/.-"/%H'$0!%J .-"#!*++"
(0!.07"' % 7"(-" +0-/%" / !-%0!'. "/%"%' *'07"'
1 'OO 'UQ!"260,!" ;0'*/'0-&&"J *!"04'"(%""("(
6*+"(' (*/' 2*'(' "% (*/ 0$0-'"' 1' :::-' *!(
U408(0/(J (!+"(6*+"(2*+" -&&U&"(/*;&"(J (*/%
#:'U%"&(J +"+;'"(0.*/' 2*+' -& *%'
R)AR@M A ':-!F(' *!(&-'2&"'7#'"%&-' 6*+"#"07"'
c> ' < * '4') '&-' /!0.*-"/% +-"&&!(
#" -/% +-&6*+"(0'+"('9 ' 9 ' &*/(2"&"
%'"'&"2*/,!"''" "%2" ,!" .*(+!"/" .*&#'"< #*/"'
9"'&"%"/'0-"#" .*!(-% "/' ("'0-' *(%'" 6*'/'&-7"(
' 2:::---' %#-"/%2-&,!-' +*'-0"&" .-'"/%' ,!"2"
$-% !6(#"(6*+"(#!' +*/#" ,!-' 4&!(;"&"$-/'$-(%'
' :::--' '$!' +*'(!/(60&%(6*/(#" &0/#"(,!-
0 -% /*+' -&"(#" 0/#0(%'+' ' -%U-&J&!-0 ,!0&
'"%*!" '-26"6*++" U-&J &" $"'0' ' 2::--' 0
,!0'"%+0/-"'"#"#"(0."!' (-'"(% ,!0/%&-' 6*/(#"
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,!-& "(% $'0/(' '1 9' R' %%*< 0* (#-%@*/
H "'6*/(9!7-#(/"4*%9!7-"'0!%'!-'- ' :::'.
CF' '2*+" (1-& &-' ", !-"%,!!-' "7*-." ' 6*+"
#"$-"$' ' ' 'S" .*!(g"&&#"+06#"2*++"/%
.*!($"!(%"((-' 60'#',!". !(,!-#%"(!/'9*"/"(
6*4('/1*(0(%"(&*"'/' U2*/("-&&"J +0 #"+*!'#"U#"
'"(%"'/"%#" .*!(" 0'-' *(%'" 6*'/'&-7"(
'(-"7/*'-"#"(0!%'"(2'"0%!'(" ' ' , #)
'4'YYR' 'o I (' % 26"(2!/' -/#-$$"'"++"/%
0!((-' ;-"'!/' 6*++" ;"(%-0& 4*++" !"/ ;*/
6*++# 4"!% !("' #" 2*'4*'"(" #"&"%%02-*/(
' Y Y'NN:.d (' -&((# %-/#'"/% $'0/@
26"'4"/%"% '-26"*/%'"% #-'"/%,!!-&(/" (" '/@
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&"'*8'40"&" 2*/("-&#"("(6*++"($-% +0#0+"
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+"++"/%"%#" ,!*8 &"'*8 #1 /7&"%""'#".*-%(@
%'"6*++"#!' '*8 #" '0/2"' +'-'&' R ' S10-'(" .-'
0!'*# 6-&-44"(*/0&"!& "%0!' *-'S"0/(*/%08*/
U7 /#@4 '"J'%0!'*-' 60'&"(("(*/'4"'";-"/"%&*80&"@
+"/%5/-'*/", !"(2-&(%'*-(' '*-('/" + (7!'"/%,!"
#"+0/#"'5 "%0!((-'/" $"'*-% "&!-@2-(1-&0.*-%07" %0
2*//0-((0/2"#!6*++"' ' ' --'/' R' -"(%*-%!/
-&' "-26"6*'/' #-:'!" /*-& /"("(*-%' (-' /"("0@%@
-& 90+0-(6*'/'#" /*(%'" 4'-(*/' " ' --' R ' -
2*-6+" -&('&"4'*4*("'/%'-&('&"$-'"/%5"% /.*8"@
"'/%' !/ 6*++" ;-"/' "% !/"&"%%%"((2"&&""(
2&*"("#".'"(+"((-'" *7"'#1 (40-7/"' +-'-.'
Y' % %*!%&" #"+"!'0/% ' %*!' 6*++"(#!6*/@
/"!'"(";*!%"'/% '&0 2*!."'%'" #"#0/(&" ;*-(' "
' R ' '*8 #" '0/2" ' ;-"/' .-/7% +-&&"
6*++"(#!0'+"(" ,!-' (*/%(*-0/%" +-&&('%"(%(0'@
+#"(" ' &-.' 4' Y'#0/(- /#-%2*+@
+!/"+"/%,!!/' 6*++" "/' .0!%"/'2"/%"2"/%
/!"/' 0&-"/%40(!/5'% "% 0!'.'08#-'"%0!2!/"($*-(
-& 0#.-"/%,!"40" !/' 6*++" !/'40&("%0#"'2"#
"%'"(9*!-' 40" *(/' "(0 4'*!"(" 5#!0!'"
!/'40#("%*"!/" 4"!&' ' ' &-."#"(4"&-"&'4'0/%'BR '
!&'< "(% .-"!&' 6/(,!-9"!/'$"++"4'0/%' '
7 ' *-' ' / ,7' ' "%2' " .-."2" ;*/'
;"!.0-7" Q!-' +*/'6*++" U+0'-J "/' (0/%"+"%'
% /*!($0-2% -.'"%'/40-"'"+0'-07"' ' 0!'
9 'YM'S'&!-'("+;&", !!-&(*-%6*++"' ' , + '
M *!% 6*++" 2*!'*-%."'(&"1#!2#1 '&"0/('
,!-0#."/*-%&0 2*!'*//" 2*++" 0!4&!('4'*260-/'
??' .+' ' &U&" #!"#" *!'7*H"J '/1"(%40(

6*++"4*!"90+0-("("(0*!&""#!!/"/%'"4'-("-/'
' 'S" /"(2"8 ,!"$0-'"%/" +1"6 (2"8 26".-'
%0/%"(%+0&6*++" "% #-."'&"(M 6 4 ' ' S
'4') ' - .-/#'"/% !/ 2"/%'" 0!%'"#"%"&
'0/#*/ ,!0 "'*0%%'-/% (*/ 6*++" (-.""%!"!("@
+"/%,!!-&&"4*'%0" '0 * '%' .' (*'
//"' -"'!/104.'-(%6*++"'
' /'%'4') ' O I'Y Q!"$'0/26"+"/%9108
!.#'%"(+"(4'%"(0.-/7% +-& 6*+9-('0."%"&"!'
204-%0-/"(' Q '9' A' 0226!(&0.0/%"%#%
,!!"&&""(%("0/%"' % 2*/."/0/%"' #&"
!"" /'%0-&&" &0 .-7/""/'&0 (0-(/' 'YM'
?0&&-7/8 ,!-'/1"(%40(4&!(6*++"#" ;-"/' ,!!"!-'
2* ' ' '4' MRR' *++" #"7!"'"
' R' *!(/" (*++"(6*++"(,!" 40" &0 40K
'*&"' ' YM'& "(%*-%6*++"4*!" U J #".'/-'
' 'A' *++"#" &"%%"(' ' ' A' ' "/.*80
(!;9!7!"'&" +*/#"' %*!%(!&"+"/%Y ***'6*+K
+"(' ' B ' *++"($0-2%('-&(' ' B' -'
$0/%6*++".-"-&'9108%*!(9*!'(2'"! ' ' BY
'#"$$-0 0!2*+;0% #16*++" '6*++"&" 4&!(.0-&@
&0/%#"(0!&*-(' ' "(0!&*-('080/% ."!#"($0-'"
&"!"6*++"#" !"/".8"'"/%!'6"'0!&%' *++"4*!'
0221($"2" 0;-!(' '.' &&!8'%!0#"!:'
+-&&" 2-/,2"/(;*/(6*++"(' "% "/' -$"-% (-:'2"/(
4'-(*/-"'(' '0 '>' 'Y' /6*++"#"26".0&-X'
& 'YR'"1"(%*-%!/'4"'(*//07"40'$0-%%"+"/%#'*-%
"%9!(%" (26*"("(4'-.#"(#16*++" '6*++"' + '1'
M' *++"0((0-&&-' #"+-'.0-/2!' 7 ' *++"
"/#*'+-'2*'4("/"(". "&-' ' *++"+0%-/"!-$'(0-/'
0&0-7'"%(*-7/"!:' ' ' *++"+*"%/"$0-%7!"'"'
' *++" + !%-/' ;'!(,!"'*!((-/'$&02*/'#"/-/'
4'"//"/%%"(%/$-/' ' *++" '!(#'%0'#" 0;!(#" +'
++" ("!& "(% .0/#" 0!:'&!4(' "&!-' "(%
6*++"#" ;-"/' ,!-' "(% 6*++"#" ;-"/' (' 0
7'0/#6*++"7'0/# ."'"- ' " +"(260/%6*++"&0
;*'"8' ' ;*"!$40" &02*+" 16*++"40"&0
40'*&" ' /"(2-"/2"'", !-"%%*!!(*/'6*++"
0$0-%9!7" 16*++" ' ' '0 /' 0
4'RY' 1*'/"4"!% 6*++" /!##"(4*!&-&&"' '1'
4'RM' /' /"#*-%9!7"#16*++" "%#"% .-/'(0/(
&"("(4'*!"(*-"%" ,+0%-/'"1"%--'4'YM' -"!
$-%!6(#"(6*++"(#!' +*/#" ,!-' 4&!(;"&"$-/'$-(%'
."!:'2*7/*-(%"'"%"(6*++" ,!"(*-%4-(%0&!8'*K
$-2"'260'7" *!' (*++"' ' '1'4' M' !%0/%.0!-
6*++"2*++" -&(1"(%-+" ' --')
' # $ ' ' "'8' , '4'*."/7' '
'20%0&'6*++"5"(407/' 1 '4*'%!7' '
-%0&' ' #!' &0%' ' 0/(0/2-"/' $'0/@
70-('0!'/*+-/0%-$ ' *!' +*-/(2*'"2%"+"/%'
' 0!' '#7-+" ' 0!' 4&!-"&' /*+-/0%-$ -%
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&-""'%*+' ' !" ##'-." /*%"'/*+' -/##$-/-' */'*/
0&(7'0."' 4' A' 0!' :.-d (- 2&"' #-%,!!*/'4'*/*/2"
' "1"(%@ @H' ' !" *'-7-/"#"' -&
/18'0,!"#"(2*/9"2%!'"(5 *44 -/#-,!"&" 0/(2'-%
1 , ' '"#0%!'"'#" 1 ,'#%'" +0-(*/'0!'0-%"!
"/'&0%-/' , '#!0!%'"(-/#-,!"/% , '&0'%"'"
' (-7/-$-0/%'#0/(2"%"%684*%6#("' &"'"(%"'
% ?? ' D*@+#E' ' ' -+-/!%-$.-"-&&-' 'K
%-%6*++"' ' ;*/'6*++"0!'#"(2*!4('("2*/(*&0
' ':.-d (' */'40(#!/ "'2!&"(/ #!!/
0+(*/'+0-(#!/'("!&6*++"0!' ' "'.'.*&
'# *%' -+-/!%-$#" ' 0'#'& 'M)Y'0
#-%
%' / ,%% ' D*@+#"E' ' ' "'+" '!'0&'Q!0/%-%#
,!!/' 6*++" 4"!% &0S9*!'"/" "/' 9*+@5 %'0.0-&
#!/"9*!'4#"!'N /' *'0-/" !/" #-.-(*/#"&0
%"'" 260+42*/%-"/%#-:'6*++#"(
-' ?'
W ? '4'#$--" ,!-' (-7/-$-"&" +#+" ("+@
;&0;&" "% ,!-' ."/%#!7'"2 #4M3' ^
%' ? ' D*@+*@;'0/@26E ' 6' "'+"
#"<**&*7-" Q!-'0'&"(("+;0;&"(' NR '
' "(6*++*;'0/26" (-(0/26-"(-' ("+;0;&"("2'!@
(%0*"(2*+4'"/0/%"2"!:' ,!-' */%'&"(;'0/26-"(-' /'
48'0+-#"
'# $ ' ' "%1 *
% ? ' D*@+*@(0/@%'1E' ' ' "'+"#"
7#*+#%'-"' "/%'" 2*++!/'#"4&!(-"!'("2"'2&"(
'# $ ' ' "%*
? Q ' D*@+*@(0/@%'-@[1E' 6' "'+"
#"7#*+#%'-"'Q!-'0 +#+"2"/%'"5 2*/2"/%-,!"
-'$- ?' *
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/' 1!/"$07*/'6*++2"/%-,!"5 (0/(260/7""'#"
2"/%'"' "+*!.*"6*++2"/%-,!"+"/%
$? Q ' D*@+*@(#"@[1E' 6' S' ,!" 1'
#70&"+"/%-;&*;'"" D4*-((*/(E D:"4I*GE
%' ? ? ' D*@+*@#"'+1E' ' ' " ' 0@
+-&&" #" '"4%-&"(*-%46-#-"/(2*+4'"/0/%"2"!:'#*/'
&04"0!'"(%"'**!."%"40'%*!%#1"20-&&"(
'# $ ' ' "%#"'+"

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; +20 '& '/' ' :BG9+:5 3 3:93 :5*
529B 42 .2 B_J52 < B 828 E .3: B28
'JB 2 $9 4 5895 JB 54 @ B4 50 ' .:9<8 ; *
< 3929A G 3 B=:5529B 5 88 53 428 B ; 2 9AGB9.*
3929A '=, 'E' 'B28<2.3825 RBB=98 # :5*
529B 49 4 42 ; 2 '& '/' ' 28 G 3B28 ?9'
8:53 B=:5529B 428 :B 38 , '9 'AE ' 2 93
+2 8:B3 4#R< 3 2 &=:5529B 42 8:5 82A2 23 & 23:552*
; 253 4W 5 3B2 'C" ' '*' "
: * * 5' N N' 9 @29 + ' < B3 2 4&=:5529B + '
3B: 8 2 ; 2 < B3 2 ?92 :5 @:92 ?9 54 .= .95 428
429A @:929B8 25 'J J5 '952' L G8:+9 ; 253 &=:5K
529B + ' < B3 2 4&=:5529B' $9 53 '5:98 < B3 2
B2E 5.=2 23 =:5529B 23 5:98 E25:98 253254B2
; 42 ; : 82+2 6 29A 0 1 '/'Kb N 2
@:92B ?92 &=:5529B ?92 <:9B &=:5529B 52 < 8
@:92B 4& BJ253 @:92B 829+2 ; 253 <:9B < 882B +2
32 ; <8' > C0 2B ; 2 42 @29 42 . B328 ' 28 J9B28 4& *
:93' >& '95' =:5529B' >& ' 429A =:5529B8' L 9
X= 83 9 G:83:50 23.' +28 J9B28 23 & 8 4& 3:93'
F' 2B ; 2 42 4:4 +34' !:42 42 <B:<B 432 + GB2
9?92 3 253 33 .=28 428 4B: 38 82 J529B 9A'
70 :3B2 #:5529B 283 25 5J+232BB2 95 3 3B2
?9& 5 4:552 < B B28<2.3 '.2B3 528 <2B8:5528 42
?9 +3 ' ' 0 :<9+ B2 ; 253 23 < B . E+34' 9'
E:3B2 =:5529B 8 9' +2 B28<2.3 ?92 @2 E:98 4: 8'
' B:E2BG28' 28 =:5529B8 .= 5J253 +28 ; B59B8
.&283*"*4 B2 95 < 9EB2 25B .=' 283 89@23 "' 82 ; 4.:5*
5 33B2' 2552 ?9' E:94B ' <:9B 825325.2 $92 +28
=:5=29B8 .= 5J253 +28 ; :29B8 >2 .B: 8 <+93 3 ?92
+28 =:5529B8 ! 233253 +28 ; :29B8 25 E 425.2 '
Q42 2B495/ 0 'N S 3:98 82 J529B8 3:58 =:5K
529B8 '3:93 82 J529B 3:93 =:5529B 2&283* *4 B2 *
93B254B2 =:5529B '?9' * << B3 253' 54 3 988
9A 82 J529B8 +28 =:5529B8

' ?' "+*%/"#".'0-%(1 2'-'", !10."2 !/" /5
/-&"&0%-/ /& $0/%-,!"*'%6*7'046"'/-&0 4'*/*/@
2-0%-*/' /"9!(%-$-"/%&"(#"!:'%%/
':-F(' "'"< ("(';*+'U(*/'6*++"J 40"
6*//!" "% 40" ;"/' '< '---' '&!-&0-(@9" +"(
6*/!'(' "%@+"($-"$(' 1':---' "&!-("'."(U?06*K
+"%J' 1*/!" #!'260+4'"'% U "'0J /*(%"' 1'
/("-&&"<@+"-0 #'"-% "% "' 6/!' 1' -::-.'S"
/10!'0-9 ', !-' *!(%-"/" +1*/!' 1'22'.' -+'4&!@
(!'(7"(%"(#"&!-(*/%7'0/<6*/!'(U#&*7"(J'1'
22::.---' ':--!'(' /1*/*"' "!'&"M'(0-/%" ?0'-"
< /' 4' M)' 0/% ,!" ":'.*-&&"'#!'260+4
0-*/(1*/*'1'4'-*(' /'#* 2" '0/2"#*/%&"(
6*/*'(U$-"$(J %"/"<' 1'4' - Y' -' '*-(1"/+"/"
,!-' +*!%&!-$-%*/*'(H%6 4' (' 10'#'*-%0!'%-"!
/" 1*/*'Q!-("2*+;0%"(*/'("-7/*' '
'-&-#".*/(+*!&%7'0/'4/*"4*'%"'*//'
'#0/('/* ' + ' 1 !;&-"'0-2"(%"6*/*"
10+"'%*!%"&0+"-&&*" ,*'->" /!-2'*-(%'0.*(
&*('/".*(6*/*'('1'.!' "(0!." 1*/*" !2'"0K
%*" (%*-%%*!%%"+4(U$"9.*!#'*-"U,!!-&J !-%$"-(%
#!'9*'5 S0+0-(#*&*" "4"(0/2"U9"J /10!'*-"'S *@
'4' MB' ?0-(U,!"J 2%& "/' 0-% 1*/*'2!-
":'.*!#'0 0-#-"'#7'.'?0-(2-&,!-4"'%6*/*'
.0!'*-%+-"!:'+*'(,!'.-('1'::.-' -'/*!(4*'@
%"'0 60'&"(6*/*'"% ("-7/*'-"'1':::--'N:+F('
/(7'-":'U!/' '"2J' ,!-' +*!% "(%*-%(-'"(#*!'
40&(' (-' -/%"&!-' &-$-(%+*!%7'0/%*/"!' 4!-(
&-#-(% '.- '2:::---'Q!0/%" -' 60!%"6*/*"
U9"J (!-26"$%""/&0';*!"' "'%"'::---' 1*/*'/1"(%
40(0!-'"26*(" ,!"7!"'"#*/'#" ."'%!' "% +"'2-
#*!' ;-"/' '"2"!' '9 '4' YEM'0 &-
2*!'%*-(-"J ("%-/% !/(26".0&-"'(2*-/%0;&"("%
;-0!(40'&-"'(Q!-(*% ;-"/'$0-'"6*/*"0(7"/('
*("' MR' "'*8 +"#-% ,!" 2" +*!(%-"' "(%*-%
$0-&"; 1*//!"#!'+-'02&" ,!" -"!'$-(%#!'#80;&"
,!"-&7"%06*'(#!2*'(#"&0$- " '&0."!."$"++"'
V9*'0.'b)' ?"((-'" '0'%' -& +"("+;&" ,!".*!(
$"'-"(.*(%'"7'0/#6*/"97' (" .*!(0&-"< ,!"'"
0-#"4*!" /*(.-"(0(!.'"' + ' M' -"'$-(%&"4'M!@
#*++"'.*!(' '$0-%"(7'0/%6*/"!''&0 .*(%'"
+"'2-'-/' -M' S%*#4"'"%70'#"%0+*'"4*'%"6*/K
/"!'"%'"."'"/2"' "%70'#"&"!'2*'/+0/#"+"/%'
Y ' % &"(6*//"!"(#-0/7"/% 1'0%"/2-*/'
0 ' /'WY '%'-.'4' YBR'#0/(
S".*-& ;-"/' ,!"%!'(026"(,!"%!'/0/4*'%"'0(>"
4&!(#"2"(%(-"7&" ,!" 6*/*"'%0!+*(/"'A
$F M)'/ ' ' :-.F(' "2*+;0%0/(' "/'(*!."0-/'
6*//"!"4*!"1"+4-'"'*!+0-/' 6 '$F(*'
'"2%*' */"!'"(%7'0-/('-26"(("(%40-&&"5 */"
,!-'0 6*//"!''-& "(%'-26"(' 6 '4' '
0!'4"'"/"#*-%3 '40(&" 6*//"!' ,!" "/#*-%"
!/'(07"2*++""(*/#*%%"!"*!' +0-(%"' 6
0 ' M' O!('! '("'0 6*-+"!"2"/%$*-('4&!(
7'0/#" ,!"2" ,!" /*!(' "!((-*/('&"2"+$*'% #"(
/7&*-(' -(('/'/')-' #*/2'"%*!+0&"2*+%"
#" *-:'#"."'(+*/("-7/"!"#" "'/"' ,!-'&!-$-%
7'0/#26*'"% ;*//"5'2"'$!%'0-(*/'20'-&'&!-0.*-%

8 9E4 8:5 =:5529B 5U 5 5B 8' S' 93 <B 8 +2 . *
< 3 +52 23 3:98 .29A 4&=:5529B ?9' 42E2B8 +9' 28*
3: 253 ' ' M ' :9BE98 42 JB 54 8258 23 42
< B 32 =:5529B H 9+ 9 ; 2 42 # 5 931 ' 0
3 23 "'+' B: 52 4& 5J+232BB2 3:932 &=:5529B 23
B2E2B25.2 ?9&* <93 0 ' ' ; 2 B28<:54 3
?9&* 9B: 3 B2 25 .=2 ; 50 ; 8 ?92 &=:5529B
+9R 25 42 ; 29B2B: 3 'E5 0 ' 252M R 3:98
G:58 < B4:5529B8 $9' 8? E2M B2 +28 =:5529B8
9A E+ J28 42 G:58 < 8+48 9 '<", ': S
* ' B 283 +2 .=2E +2B "' JB 53 ; 28.=2 P . B *
82 4:9G32 ?92+'<9.2+2 52 +2 4 J52 428:B ; 8 B2*
J B42B* . B +28 =:5529B8 ; 9253 899E253 +28 ; 29B8
0 * '3' E 0 U ' 2B B4 8 .= 53 3:98 =:5K
529B8 ; :54 58 H28. E+348 ' 93 53 ?92 =: ; ; 2 42
8:9 J2 2 ' ./ ' 0 < B3' <' # 0 4 58
e ' 5 8 25 ; R 42 .:J5: 884522 ?92 + '
4 32 4 ; 2 ; : 3 25 3:93 G 25 23 25 3:93 =:5529B
& ' , '<' B ' 4 58 ' L AE 6 Y
B2B2 > 5 428 53: ; ; 29B28 E:R3 8 9+E4 +2 .+:9M
H.+:8' "' 8:5 =:5529B ' 2 ' ' B :98
; & ; R2 .328 E:M =:5529B8 .: ; ; 2 E:9+4B2M E:98
E2M 25 E:M ; 58 23 .:582BE2 3:98 ; 28 3=28 9B8
0 ' ' 2 B:R 2+3 ; 233B2 "' &=:5529B +2
B:R 4& BB J:5 H9' 4:55' +' <+ .2 4&=:5529B ' '
' & ' '= , 'B$$'<' Y A' 4 58
<2B ; 3 A J253 +8 2 ; ; 28 42 8:B3 B +29B =:5'
529B 8 9E2 ' '#:5529B8 42.2 ; 2M " +E
' 8<:82B &=:5529B 23 +' .2B ; : 5 2 4&95
2532BB2 ; 253 ; ' 0 A' 2+9R ' &=:5529B 42 +'
J92BB2 ?9' 25 ' +2 <B:9 3 ; ' 0 ' >2 <258: 8
B2 =:5529B "' 95 82 J529B 42 ; &25?92B B "' +9R 0
' ' BM ' * &28. B E3 "' &=:5529B 42 +' + G2B34 .25K
3B2 +28 3RB 58 ' ' ' & B3 J J52 +2 <: 5.3
4&=:5529B 89B +' 5 39B2 B:' 0 ' 2 ; ; 2 42 G 25
23 2 ; ; 2 4&G:5529B 23 42 E2B39 H 2 ; ; 2 .= 832
' MA' :B3 B "' 8:5 =:5529B 4952 253B2<B 582
'5 NF' * 93 5:9BB' 25 53 4&=:5529B 42 82B25 8*
8 ; 2 <B 5.2882 ; 4 ; 2 :R82 42 E:R2 1
' >2 E:98 +8 <B28253 42 .2839R*.R '<:9B E:98
89 EB2 23 B2 82BE .2 3 ; 32 8 'E 2 .: ; ; 2 "' 8:5
<2B2 4&=:5529B 0 ; ' ; 0 N' : ; ; 2 ' 93 <B28B
42 8?5 =:5529B H<B28a"< B 5 G28: 5 5 39B2+1 :5 +2
; 25 ' 28 <B E48 .)8' ' > ' 6' <' " 0
4 58 ' B2 =:552 B 9 8:+2 * H52 82 +2E2B
?9& <B48 ?9&* 283 +2E41 "! ' $9' 4&=:5529B
5& . B2 =:532 283 8 4B: 39B2 9 $9' 5&'
=:532 * 5& 9B '@"=:5529B ; ' 9 42828<: B 8&:9*
G+2 &=:5529B ' 1' > 0 /'3' +0 <' Y
- ' . / ' B:E25@' ' 28< J5' '
3 +' '49' +3' ' 9 SE 6 8 2.+2 4& <B28
+8JB E2 <' 0 +28 429A '82 <B:5:5? 253' 58
& 5.2552 + 5J92 =:5:B 283 49 2 ; 5 5 .: ; ; 2
3:98 +28 5: ; 8 3 B48 428 89G83 53 8 + 3 58 G83B 38
25 :B' 2B8 +2 AX0 23 +2 AE0 8 2.+2 +2 J25B2 42E 253
5.2B3 5 23 5 +2 ; 253 * 82 A2 9 ; 8.9+ 5
? ' 'D6*@/&' /-"E' " ' "#"6*//-''
"%'" $0+-&&" /"("'0 4*-/% 6*//-" 4*!" *2*!4'
(.'YY 'S0-&"+0&6"!"#!0-+"'" +-"!:'&"(28%6"(
,!10!2!/"#" +"(%'07"#-"(5 4'"+-#'"/"/%'40'2"
,!!-&(*/% %#6*//-(5 "/("2*/#&-"!'40'2" ,!!" "
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7"'(+"2*/(*&"/%5 /0 9*!# ' */#@"(!/"%'0K
#!2%-*/'#" 0/2'##" 0."2 !/'%'"(@7'0/# (!2#('
" 1' e 9!-&&' AA ' "%-%(!&%0/(6*//-(+#+"
#0/(&"!" (#'0-&' " ' - ' ' '
E */'!-(*-& ,!-' + '8'4"/("& #".-("#"1*'#'"
0/7&0-(#"&0 S0'"%-#"
' ' Q=:*5 B/0 k' ' L F B2 =:532 "' ?92+*
?9&95 G+ ; 2B 25 8 93=:532' 5 +2 =:55 B' 8 *
G 54:552 8:5 < B3 ' '.:549 32 '434 < B3:93 =:5K
5 2' >2 89 8 . : ; 2 .28 B2.8 ?9' B25:5? ; 253 "'+'
:9B 49 JB 54 B:' <:9B E25 B 3B2 =:558 < B +2
<29<+2 4& 3=2528 9 ' = ' A ," ' M' .:3'
A Y' B +29B G2+2 443B: ; <42 28 4+:58 82B:53
=:55 8 .'/ ' C ' E0 ' L G8:+9 ; 253' 5 52
&4.:93 3 < 8 :58 43 :5 =:55 88 3 :5G :9 3
' # ' ' AMA' >,/' % AE0 <' RA' 4 58
B:9 ' ' 0 :9EB B 42 =:532 448=:5:B2B' $9: *
52 3 2<3* * ?9&" =:55 B 428 ; +28" :9B E:8 4G 38
5:98 5:9BB B:58 5:8 +28* ' ' * 5 B23:9B
4&952 . ; < J52 .28 4BN 28* "' 52 8&2 ; G BB 88253
5:5 <+98 42 =:55 B 952 2 ; 2 42 B:G2 0 - & '
: .:5.28 8.' F
' (' ' ' ' #:55 0
2&283 B2 =:532' 58 G :9 ; B & 442 42 ?92+? 2
.=:82 42 =:5329A 5&2A 832 < 8 2&283 .2+2 42 ; :*
' 293B J2 532 ?9' R 4: ; 52' + <2542B 2&283
- .: ; ; 2 ?92+?9&95 :9 ?92+?92 .=:82 42 E+'
- 'P' .' 8' B ?92* ; 289B2 +2 <2 88 :58 =9*
5 B G '< 'S E; '/A50 8' 2 E98 52* 42+ EB2M

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;-"/'"2"!' ' M A'
- ' (!' B:E25J' :953B 42 52 = 93* +2 ; '
6 ' +2 ; 54 ; :4' =:=5.5 ; :?92B B2 =:532
$' ? ' D6*@/-@("@+0/E' ' 2%-*/'
#" 6*//-"'-7/*+-/-"
- ' S 6 8' #:55 882 ; 253 "" ' !
' # ' Q=:*5 *829B/ ' 2+9' ?9'
=:55 3' B ; ' : 0 .2 J4 53 283 95 JB 54 =:55 8*
829B 42 <9.2+28 ! '$9&.[:32 4 58 #'Z /7'!
* +,
b# 3' Q:*5:*B *G*+ *34/0 6' ' $9 +34
4&952 <2B8:552 =:5:B G+2
- ' 'A9&6 8' $92 * B28J B4253 "'+' 5:G+2882
42 8:5 292B 23 "'+' =25:B G+234 42 828 ; 29B8 23 42
8 'E 2 ' 9 '<' MA)'L AE 6 8' #:5:*
B G+234 283 =:552832 ; 253 J:9E2 ; 28 8 ' .=:82 ; *
+ B2 23 325 B 283 3 23 <:9B .2 .29+M ?9' 3 255253
JB 53 283 3 23 +2 <2E253 B2 8:53 42 +' JB 53 =:5:*
B G+234' - ' +9829B8 ?9' 8:53 42 <23 32 =:5:B G+234
? ' 9 ' ' L AE6 8' B 83:32 E29+3
4 B2 ?92 5:G+2882 283 952 =:55:B G+234 42 <B: J25 *
329B8' ' ' 9 ' % ' 0 6 "
# ' Q:*5:*B *G+/0 6' L 0 $9' 33 B2 42
B=:5529B 23 49 B28<2.3 25 < B+ 53 428 .=:828' 5
4283 5 E:B G+2 !&: B 3 25 .2 4 5J2B 95 89@23
=:5:B G+2 & .?94B B < B ; '<2B32 95 3B : ; <=2
"' ; ' : 0 ' ; ' >&R E: 8 42 E:8 E2B398 +28
<B29E28 =:5:B G+28* >&R E: 8 + ' = 932 283 ; 2 : *
8:53 E:8 JB 548 2A<+: 38 ' # * ' '
28 B2 528 428 43 5J8 JB25:9 +28 E29A*@2 4 B2'
B ?92 .:932*3* * 4& <<2+2B 28 .=:828 < B 5: ; 8
=:5:B G+2B^ ' - 1 'A 0 ' >&:82B 8 ?9 8'
889B2B ?92 :&283 ?92+?92 ; 9E 8 44 ; :5 ?9 0
E:9+ 53 B254B2 +' < 9EB234 3:93 "' 3 589<<:B3 K
G+2 '3B:9E4 +2 ; :R25 4& 33 .=2B 9A B'.=28828
3:93 .2 ?9&* R ' 4&=:5:B G+2 23 42 <+ 8 53
0 '#'- ?'* & '"' 3 .28 5: ; 8 .28 B28K
<2.38 .28 <<+ 94 882 ; 2538 2E 2552=3 <:9B 398
93 53 4&25J J2 ; 2538 $9 0 +2+ 53 82 J529B 4&952
=:5:B G+2 .=3452 ' A253 4 58 8:5 42E: B 828
E:29A BB48:+98 7' ' E0 ' :9 B2M 8' ?92+K
?92 ; :583B2 '<9 E:98 4.= <<2B $92 & <<:B32 "'
E:8 < 248 8 '44<:9 +2 =:5:B G+2 "'0 ' 0 %'
H 5 ; G 88 429B ' 2 5&283 ?9&95 2552 ; '8:98 95
3 3B2 =:5:B G+2 9 ' , ' 0 "' &283+' ; :+288:'
?9'8 8&2<:9E 532 23 5&:82 B2 &4.= 5J2 42 8:5 B2K
<:8 .:53B2 428 <4B +8 =:5:B G+28 $ ' '" '
: .- ' ' 2B ; 2 4& B.=32.39B2' :+:552 =:5:B K
G+2 .:+:552 4+2E42 25 &=:5529B 4&95 =: ; ; 2 +98*
3B:' ' 2B ; 2 42 G+ 8:5' 4228 =:5:B G+28 42 &4.9
+28 < 4228 <B+5. < +28 23 :B4 5 B28 ?9 0 25 +29B
@9832 43254921 <29E253 :..9<2B +2 3 2B8 49 .= ; <
L ' J52 4&283 ; 2 3<+' ; 4B 32 4&23B2 =:5:B4 25*
< B+ 53 428 <2B8:5<8' 2+' ; 5 42 3:5 <2B2 95
.:9< BB4< P'+2 48G:5:B 3 49 ; 25 +' E 2 +2882
=:5:B G+2 ' ' 5 "' Q4 58 +28 E B 5328/'
' 8 J2 23 =:5:B G+2 E 2 +2882 42 ! ; 2 :+ 542

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8:B32 42 < 5 2B ?9' '428 GB232+28 23 ?9&:5 <:B32
89B +2 4:8' :B32B +' =:332' #:332 4&95 .= :55 2B'
+' <:B3 3 8:5 <23 3 52E29O 3 3:58 5:8 4 29A 25952
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;GB 3253 G 25 ?92 E:98 +28 E:R 2M ?92+?92 : 8O 23
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42 =:332 <:9B .28 42 ; 2B8O 8 E' = ' ,' 7 '
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?9' 82BE253 " <:B32B+2 E 5 49 <B288: B 4 58 +28 3:5'
52 9AO 2+28 8:53 G 339280 :9 82BBGG80 :9 <: 88G28
42 ; 5 2B2 ?92 +2 E 5 52 . 9+2 < 8 9 3B E2B8'
' 9E2332 B2.2E 53 +28 2 9A 428 .9 8 528 23 428
.:;G+28'IL ' :9.=23 4&95 583B9 ;253 " 4B J92B'
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49 89 882 G9332O =:332 +2 ; 54 <B:E 5. +O
.:BG2 +2
' Q=:*3G2/O '[' 2 ?92 .:53 253 952 =:332'
+ 52 =:33G2 42 32BB20 42 GJ9 ; 28
-' 'O '8' ' 93 .:BB J2B " .2 ?9' 283 4 3
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42 +' =M +2
-' 'O '8' 53B2 +28 93B28 E25425J29B8 23
E25425J2B28828 23 =:3329B80 5:' # '/ ? '
O '8' 2 +29325 5342 .G:55 2B20 53 4:55G
" + ' .:53B&28. B<20 23 B2.:559 ?92 < B +2 .=2 ; 5
428 =:3329B8 ?9' 8: 2=3 95 28<2B:5O :5 <:9E: 3
+2B ;28+2B0 25 4:552 5.:53 5253 4E 8 _' 5:920
5& ' '5O 7%F
' ?'
j' # ' Q:*33:*5&/ :9 # 'Q:*33:*5 2/O
' ' 2B ; 2 42 G:38 ; ?92' 25B2 42+' 95 +2 428
<B ; 9+ .G28
-' ?' 'G:3G5 832 =:+ 54 8
3' # ' Q=:9/O K' A<B ; 2 ?92 &:5 <:9B89 3
?92+?9&95 :9 ?9&:5 82 ; :?92 42 +9 ' 32 2B '
< B3:93 =:9O =:9O >:' 32 2B ' 42E25 B :9O !
' 3 '$3' 5G 8 25 B 3 .:; ; 2 95 :9O 3 $-%'
<BG8 29AO =:9O =:9O =:9O " '3G'E 'IL +82 4 3 988'
<:9B B2 =:532' #:9O +2E + 5+ IL 2B ; 2 42 ; *
5GJ2' A.+ ; 3 :5 4:53 +2 . E +2B 82 82B3 ?92+K
?92 : 8 <:9B B2 BBG32B 8:5 .=2E ' 8 58 3 B2B +'
GB 42' IL 2B ; 2 42 .= 882' #:9O =:9O <BG8 ; O .B'
?92 3 253254B2+2 E +23 42 + ; 2B <:9B 2A. 32B 8:5
.= 25 ?9 54 .2+9 *. '4G3:9 ; 2 +28 G2328 E28
3' # ' Q:9* *.=&/' 23 # ' Q:9*G*.=DIO

' ' & d "'+"#"+0'-/"' 'O2" ;*!-&&*/!0/%" ,!"
&" /0.-'" &O-(("#"'-;'"&!-'4"/#0/% (O +0'"6"' "%
,!'"/'-/#-,!" &O .'0-" #-'"2%-*/'NN -'" !/' .0-(@
("O!' "/'6*!026"' &" '"+*',!""0."2%+'O!%'" .0-(@
("O!' ' 'O-/"' ! /' 40.-&-*/' "//"+-' "/'6*!026"' &"
%'O-/"' 4"6#0/% ' O'-;'"#!!/' .0-(("O!'NN ' "%-%
+*'2"O!' #!;%O+-/"40((;'#0/('&"(%'*!(' #" &O &-7/"
#"&*26' ' !/" #-(%O/2" #!' ;%"O!' #!' &*26 D.*8'
@ ;H&"' ' &O &*/7!"!" #!' ;;%-+"/%
' ?' 1 20#;+-" ;*'-% , * '(O/(' '"%/1O 40(
&O $*'+" , *' ' "(&-.'"("26/-,!"(' +"%%"/% 1&-
' $ ' /7&' %2*%" 6*!026"' #" 1O/7&*@(O:'
F * ' ;%'"O/-+-;'":2-%;'4*!((;
%' ' ' D6*!@O@1E' #' ' "'+"#!07'-2!&@
%!'"' 2%-*/'#" 6*!"' ' #" %'O.O-&&"' ' &O 6*!"' "
6*!07"'"(%;-"/' -%
'# $ '
%' ' ' D6*!@O@1E' ' ' O/(&"(&--/"('#"
260';*' +-/;'O&'&*/7!"!'#!'%"'0-/' ,!"40'2*!@
'"/%&"(."-/"('"/'(!4"'$-2-"%"/'4'*$*/#"!-
'# $ ' "'O-%12"&" + +" ,!" , * ' %"'+"
#" +"'3
%' L' ' D6*!@O@1E' ' ' 2%-*/'#" 6*!"'
&"(#'O4(' I
'# $ ' '
'D64!@;&*/E' ' ' &O/%"7'-+40/%"#"
&O $O+-&&"#"(' !'%-2;"(' #-%" O!((-.-7/"#!/*'#'
;-;'"'$O-'4O/%"' ,!1"+4&*-"&O $--;'-20%-*/' #"&O
;-;"'"'(%O 6*+*/%07"'"'*'/-%6*70&"#"(
8"/;"(
' 'O ' (' "(#-%(;'O(("!%(("'*/% %"/!-
$"-'" ;*//"(' "% &*8O&"('(' "'.*-("("(';-"'"'"(' (O/(8
+"2%"'"' ,!O ;*/'7'O-/' "O!' "% 6*!;-&&*/' '"/;
;&"8'#*/% -&(' /"' 4*!'"'*/% !(' "' (O/(' 1O!%*'-%;'#"
9!(%-2"' C ' $;.'')R' NN :.-I' (' 6-2*';"(
6*!;"&*/'' .-*&"%%%"#"' #"' +0'(' #' 9' M' !'6*!K
;&*/'' *!%"'&"'4&O-(-'"#"&O'0+"!'"'4*!!"*+;'07"'
%-'"@"*/'2"'4'*$-%',!"#!"/'+0/7"'"'/'&O 4'-+"@."'
&"(%"/#'"("('2-+"("('#"(9"%%"*/'("('#-."'('O440'-&(
(O$-"!'"%'aO("+"/2"'(*/%O!((-!%-&"'&O;-"'"'
' ' ' MM' /' ;--;"&*/' '0+40/%' ' ;'0(
&*/7(' "%'"%*'(' ' Q;W
'# $ ' ;/".'*;C*/(5 gO&&*/' 1 '0/2'
gO&&*/' ,1 ' #!' 6*&&O/#0-(' "'6*!;&*/' '
10-#"#!!/"$*'+O%-*/'#-+-/!%-." - " ,1'
' "%2' #!04'"('0/#707/07"'Q!0/%0!' ;O(@
&O%-/' , ' ' ' -& %-"/%0!' -&O+0/#6*'/@
+"%5 0/2'(20/#' ' ' 6*!;&*/
$-' ' D6*!@;&*@/;' / ;"E' " "
#"6*!;&*//"' ' "%%;' ;-"'"'(%%'*4 6*!;&*//;"
' D6*!@;&*@/;E' /'*' ?"%%"'" #!'
;*!;&*/' #0/(' !/" ;*-((*/'
' D6*!@;&*@/-"@'1E' ' ' 60+4
4&O/%;'#" 6*!;&*/' ;0,!" "(20#'*/' #;6&O 40"*!'
-& 4!%' '%'0."'('&"('60&"('&"('90'#-/('&"('6*!;&*/;
/-;'"(' ! ' ;J' YA
['# $ ' ,1 'gO&&*/' 81 '/0+!' ,
1 # '
'D6*!"E' '$' N d /(%6-+"/%#" 4"%-%"2!&K
%!"'2*++4*(;'#!!/'+0/';" ;/ ;*-('&*/7 #!"/.-'*/
!/'+;%"' "%#!!/'&O +"' #" $"'"$-;'0!'+0/26"'40"
!/" #*!-&&"'"%$O-(0/%O."2 &!-"!/'0/7&"' 4&!(*!
++-/(0-7!5 ,"&,!;$*-(&O &O+""'(%#-.-(;'"/'#"!:
40"%-"' *!" '26".0-'4"%-%"260"' ' !/'"!
4&!(-"!'((*2("%-0/7!&O-'"+4&*;'%"'"'*!'*!'#"!'
;-/07"'(NN *!"';-#"/%*!'%"'0/26"' *!%-&4*!'"'
#;?26"+"/%"("'%"0/-0/#0/('"%/"9*'!%"#'"#" &O
"%07/"' NN ' "'+"#"'60'4"/%%' (4;'""
26".O&"%"(!'&",!"'&"*/'&O02"&;(;4-;2"'(#"("!'
&"(#;-"" %"'*/'&"*/'%"/7"'&&*/7NBI' /(%'!+"/%4*!'*2%"*8"'
&"'%"*'%"'6*!NNG *+'#*"$"'"+"/%%"/%(6*(O!((-6*!;&@
&"('0."2 &"(,!"&(&"($O&"/2"(/-2"'"+!"/%&O2*!.'"%"
#0/('-"(;0,!"%(
' 'O '(' '2"(#" ('0"& ."/"-"/%0(6-@
&-(%-"/('(4!'07!-("" 0#'"2-"'"&"'&O*"4-2*'("'
&O 2!-7/;'"&O 6*!"' ' 4' 'NNO-.' (' %#"
+0'%0!'#"$"'U-&(J .*/%&*"+!"#"4"2-"' 'B 4-,!"
"% 6*!"'($-"'"/%%-(4!#"*-"' 2, ' RR 'NN:.I('
%&" $'0440#!!/"6*"' " ' ' 4
'# $ 'CO&&' '/0+!' ,/ ' , ' '
/-,!"'0/2'60!%@O&&"+' , * 'O&&"+' '6*!"
4'-+-%-."+"/%602;"'#" ' '$'044"'
/,6#' # ' D6*!@;' '"E' " ' ' ' '#"6*!"'
/" -7/" 6*!;"
%' ? D6*$%@+0/E' ' "'+" #!07'-@
2!&%!"' 2%-*/'#"6*!"'
' ' :.' (' %%0/% $*!-&&O (O .-7/"' 40'4'*@
$;/#('%" -%"'(;' "+"/('"(%+"/%"*/'(*/(;"$O+-&&@
#0/(,!"&,!"(O!((-4"/#0/%"/('"%;'"'%"'%%'("'%-&"&"'
' ' ' M
' H
' I E ' D6*!@;E L' ' O;*!'"'"!'"'%"''"0.0P

T0'6*!"' ' ;(*&! +"/% 0/%$&% $"/#'" #!' ;*-(
0/%$&% $*%%-'' 6*!"' ' ' - 1 ' 'B
' &fi! >B ' 0" "S" "'$ U-%0-%J 0!((-' ;&0/26"
2*+0-H2'*-" U2'0-"J ,!!*/'6*" ' '77 ' N:.!'('
%&0 U&"(/7&*-(J 6*!*-"/% "% 4-2,!*-"/% #" 4-2(
%' #" 6*80!:' -' &"!" 4*!.*-'' ' '$ E'
&-O I' (' " +0'"" *!' 6*!"' 40" 2"(#-.-(-*/('"/'
"(%0!((-' '"/#!' 4&!(0-(H' *' /(' GM
'# 9 '$, '/0+!'' 5 4-2'
%' ' 'D6*!@"E' 3' ' "'/0" #" $*!&*/' $%
26"" !/' #'04 '"0!' "% &1"/' ''"$-'"" 4&!(-"!'($*-(0
4"%-%(4&-(' "%2'
'D6*--@'-"E' ' ' "'+" #!07'-2!&%!"'
0;*!")' &0 6*!"' " .-7/"'*/' (" (""$ 4*!" 2"%%"
4"'0%-/' #" &0 6*!" 4&!%;%' ,!" #" &0 ;$-26"5 2"
4'"+-"'" &0;*!" (!044"&&" 6*!"'-"' ! ' ' '
'3
X'$-/ L ' , 'G
%' 'D6*!@#@$E' ' ' "'+" #!07'-2!&%!"'
"%-%" 6*!"
' ' :'.I'(' S"60/' 0-(/ ' "/.*-0 ,!"''"@!/"
6*!"%" 4*!" "('026-"' "% *(%"'' !/" 4-"'"' /!'
'$- ?' '-+-/!%-$#" ,
%' 'D6*!@"!'E' ' ' "&!-' ,!-' 6*!"
' 'O I'(' % $!'"/% +-/"!'("% 6*!-&&"!'(
+-("/' ;"(*7/" U-& (107-% #!*!.'-"'(,!-' (" (""'.0/%
#" &0 6*!" 4*!" 2"!("" &0 %"''"J' ' '/'Y
'$- ?' ,'G
G' / 'D6*!@6*!E' ' ' "'+" ;!'&"(,!"'
-"-&&" 6*!6*!' 4"'(*//" #-2'$"4-%" "% 7'*/#!'("'
-"-&&" 6*!6*!' .-"-&&" 6060' 'O ' 2-%
#0/(- ' &-"((*/% 4&!(/*-'"(,!" #"(%0!@
4"('4&!('&0-#"(,!" #"(7!"/*/('4&!(("%%"(,!" #"(
--*!6*!(' & '9 ' '2, ':9& '2-%j'
$&0/((2 ' *!#'0-(@%!' ,!"9" 4'-((" !/" .-"-&&"
6*!6*!'30 ' ,"'#0/(' 1' ! '* +,
' 'O I'(' *!6*!' U.-"-&&" (*'2-;'"J*!/- '
!
'# $ ' 0/(#*!%" -/%"-9"2%-*6' ,'-4$-% '
"4"/#0/% 26"&"" /2&-/" '4"/(""' ,!" 2!"(%&" ,'
#"(&&"+0/#(' ,!-' (-7/-$-" 6-;*!
B$ ' 'D6*!@6*!E' (' ' (4 2" #" 2*!2*!'
#1 $'-,!"
' M ' D6*!@&&O@91' ' +*!-&&H"(E' ' '
2%-*/'#" &0 6*!-&&" (!" &"($"'(
'$- ?' ,
' D6*!@-'' ' +*!-&&#"(' "% /*/' 6*!@8"E'
(' 'E I' /2-"//"+"/%' (*'%" #" %"''" 2*/(-##'H"
++" !/' +0!.0-(260';/' #" %"''" 0//*/,0/%
&" ;*/' *!(/10#*4%*/(0."2 ?' #" "/(0//" &"
/*+' #" 6*!-&&" ,!" 4*!" &"(%"'0(/*-'"("% 2*+K
;!(%-;&"(,!-' (" %'*!."/% (*!."% 0!@#"((!("%
,!"&,!"$*-(0!@#"((*!(#"(."-/"(#" 260';*/' "%
,!-'(*/% 1!/' #"(4&!((#'(-/#-2"(#" &0 4'"("/2"
D&" 2" $*((-&"' 'A '%' /'4' B' NN F !9*!'@
#&6!-' /*+' 7H/H'-,!" #" %*!(&"($*((-&" 044"&M(
%+4'*4'"+"/% 260';*/' #" %"'''' "(6*!--&"((*/%
$*'+""(#" #";'-(#" ."7H%0!:' (!'%*!% #"(4'*&"('
$*!7;'"("% &82*4*#"(#" 7'0/#" X%0-&&"' ,!-' 40'0-(@
("/% 0.*-"(!;-' 02%-*/' #" &0 260&"!" (*!(!/" $*'%"
4'"((-*/' "($0+"!:' 0+0(#" 260';*/(#" %"''" *!'
#" 6*!-&&" ' "((*!'2" #" 1 -7" 4'"("/% "% "(%" #"(
4'"+-;'"('-26"(("(.;7;%0&"(,!-' 0-"/%*+;' &0 $02"
#!' 7&*;" ' ' '</ ')Y' NN *!-&&" 2*+402%"'
/*+' #"//" [!/" .0'-"%;' #" 6*!-&&" %';(@68#'*@
7;/;"'N *!-&&" #!"/7'0-(' (*'%" #" &-7/-%" %"''"!:'
''/$"'+0/% #!'$"" (!&$!';
'$- ?' C0&&' 6*-"5 ;0(@0%' 6! 0%' #0/(#"(
%":%"(#"&0 $-/'#!' :--I'(-"2&"' 1*'-7-/" #" 2" +*%"(%
-/2*//!"' ! (" (" %'*!." "/' #"(%":%"((#!' 408(
#" -;7"@"(%@-& 7"' +0/-,!"3 "% (!-&' "(%' 4"!%@*/'
&" '044'*26"" #!' 7*%6-,!" , 6 '260';*/'% /' /"
(0-%2" ,!" (-7/-$-" 2 -0';*/' ' ' #0/(
&"" %":%" (!-.0/%>' 60';*/'#" 4-"''"&0 ;0//"408""(
' (*&(5 260';*/' #" %"''"'' &" 2"/%#" ;0'-&(408"'(
B &-.'"(5 260';*/' #" %"''" "/' 6*!-&&" ' &0 260'"%;"
260'7;'"(#" 2-/,'4*-/)*/(Y 408"'(' (*&('9 '
,'G# " ' MM
/,> ++#?' # 'D6*!@&&;'&&"@'1 ' W+*!-&&;"('"%
/*/' 6*-4@8"'8;@'1E' 6' "'+" #" 7;*&*7-"' Q!-'
''/$"'+" #"(2*!26"(#" 6*!-&&" "'0-/(6*!-&@
&"'(' ' *'+0%-*/' 6*!-&&;"' ' "/("+;&" #"(2*!26"(
,!-' '"/$"'+"/% &0 6*!-&&"'
' D6*!@&&;@'1' && +*!-&&;"(' "% /*/'
+@8"@'1E' ' ' ?-/" #" 6*!-&&"
'$- ?' ,
'D6*!@&&"!' ' +*!-&&;"('"% /*/' 6*!@
8"!'E' ' ' !.'-"D9!-&&"0!:'+-/"(#"6*!-&&"
O' 'D6*!@&&"-E' -&"#@<1' ' +*!-&@
%;"(' "% /*/'6*!@8"!' 8"$-@<1E' 6' "'+"#"7;*&*K
7-"' !-' 2*/%-"/%#" &0 6*!-&&"
'$- ?' ,

j' # 5 'QG:9*+* 0 ' ; :9 +G28/0 ' ' B' 0
428 5: ;8 42 53=B .32
3' # 'D6*!@[0E' ' ' <2 39B?92 :9 <2B
(0/"' 4"!'#-$$""/%" 49 /0'76-&"6
'D6*!@&0/E'(' +' :R'
3' # 'Q=:9* /0 ' 'IL 6 !:9E2;253 4&:54@
+3:5 ?92+' ;2B .:582BE2 <BG8 952 32;<G32' 'R
'42 +'=:9+2' '=:9+2 283 <B:<B2;253 +2 .B29A0 +'
E +G2 + BJ2 23 ?92+?92 : 8 <B: :542 ?9' 2A832 25"
3B2 +28 .BG328 42 429A +;28 ?92 +2 . +;2 5& '< 8
25.:B2 <+ 5 280 ' 52 JB:882=:9+2E25 3 49.:9"
.= 530 G 25 ?92 +2 E253 8:9 +"3 42 2830
2 ' 0 E 0 'IL] B:8828 :5428 :B;G28 < B+'
=:9+2' 28 =:9+28 82.:9 253 +' BG+2 2;G B. 3:5
' 'O I'(' *!."/% +-((!" &"2*!(%" 40" &0
4'"+-"'" 6*!&&"' "%40" &0 ("2*/#('"&"." 'G '
' '0 'M
-'$- ?' 8< J' :+ P<:B39J' '
'4 58 ' B J 58 5.2B3 52' .=2+2B +2
3 B2 49 .2+3 ?92 ' \ ;BR0 / ' ;:9E2;253 42
2 9 G 8*GB23:50 ,'E J92' ! 8 > + E2.'EB *
82;G+ 5.2 +2 3 B2 49 =:+' .B29A0 ' "?9:' :5
<293 @:932B +2 4 5:8 ,, '.B29A0 ,, ' ;2B
=:9+29820 42 ,, '23 ' ;2B
3' # 'Q=:9* /0 ' ' :;@ " # B +29B0 4&952
28<2.2 42 .= 25 42 ;2B
j' # & 'Q=:9*+:/0 6' 2B;2 42 .= 882' B'
2;<+:RG < B +28E2529B8 <:9B B8 G: B2 +28 .= 258
'Q=:9*+G* /0 ' 'IL " "3:5 ?92 <:B32
+2 G2BJ2B0 23 9 G:93 49?92+ 283 952 <+ ?92 42 2B
25 :B;2 42 J:933 2B20 ?9' 82B3 <:9B + 5.2B 428 ;:3"
328 42 32BB2 9A ;:93:58 ?9' 8&2. B32530 23 42 +'
8:B32 +28 B8 B2E25 B0 'H+2 +:9<I' 8&= G +2 25 G2BK
J2B0 254:882 95 =:?923:5' 3 8 ' =:9+2332 4&95
G"3:5' 58 :9G+ 2B +' .: ;2;9820 ' ' - '
$ 'Y' ' J' 92 @2 E:98 B2JB23322 ! 8 + 93 :4K
42B" 58 .= 2508 58 =:9+2332 9 8"@2 E:98 J B42B"
" # '4' ' :98 G328 <<2+28 9"
@:9B4&=9' " + ' 42 2582 42 + ' < 3B 2 .G+2832" 3B:9"
<2 9 .=2B' ?92 +2 .2+ ' .:5 G " ;28 8: 580 .&283
<293"G3B2 + ' 42 ;GB2 :8 ?92 E:3B2 < 8329B E:98
B 882;G+2 8:98 8 ' =:9+23320 'A 'A E'
9 G2B. + +8 .= 88 253 +28 +:9<8' 58 G982B 42
+ '=:9+23320 # '0 ' ?' IL J' :G3 ?92;2530
G3 30 + ' .:543 :5 42 G2BJ2B' :9B <B254B2 +2 2B
@& '?9 33G + ' =:9+23320 '# 2 ' 0 " ' 3 +2
8:B3 <B254 <+ 8 B0 4&952 .= 58 82.BG320 & ++ 2B
?92+? +2 : 8 +2 8.2<3B2 23 + ' =:9+23320 '!'
' 50 'IL 2<9 8 +2 8.2<3B2 @98?9&"' +'=:9K
+23320 42<9 8 +28 B: 8 @98?9& 9A G2BJ2B8' IL 6 2B;2
42 @ B4 5 J2' 83258 +2 4:53 :5 82 82B3 <:9B +2E2B
42 32BB2 +28 : J5:58 42 +29B8' IL ' 93 + 42 2B E2.'
+23@92+ +2 .= 542+ 2B = .=2 +2 89 'IL 9 ++2B E2.'
+ ?92++2 +2 J+ . 2B <B2< B2 +28 8:BG238 23 +28 J+ .28'
' 2+2 4:53 +28 :5429B8 42 ;:55 28 82 82BE253
<:9B<:B32B+ ' .9 +2B <+2 52 42 ;G3 + :549'IL" :"
?9 +2 G E +E2 42 + ' ;2B :9J2
-'# 0 A 6 8 :G 523 :55G ;& '.2832 < *
/"%-"'" "%%" 6*!&"%%" "%2" 2*!%"0!' " ' '
#0/(&" ! ' ' /*2 < NN:.!^(' %40(/1*!;&-*/(/*(
6*&"%%"(' " /*(40/"%-"'"(;-"/' $"%%"(' '
0 'O AE 6 8' 0(26*-"/% !/' 0!%' " ("
'"/#'" #"$0-%(0 2*!4(#" 7*8' #" 6*!&"%%" "% #"
$*/#"' ? /-Y
-'$- ?' e ++:50 ' B J 52 5.2B3 52'
B 5J J5 J2 +2 B 33 .=2 9 E2BG2 X ++:5 '82
B2;92B0 8& J 32B' .=2+2B0 ?9' 4& G:B4R E 3 E9 95
4 ; 593 '42 ,': ,':53B .3G 25 , 5'
B2E 253 9 + 3 5 ,' =:9+23320 4&: '95 4;K
593 ' , ' ;95 '42 } '< B 88;+ 3:5 E2.' ,
S0 'Q=:9+2 0 +24"M&/0 6' 2B;2
42 ; B 52' J 3G < B+ ' =:9+20 25 < B+ 53 42+ ' ;2B'
28 .:9B 538 42 9GG2 B254 253 25.:B2 + ' ;2B
<+98 =:9+29820 '$ '< B3'
'$- ? ' *!&"%
\' # $ 'Q=:9+*\&/0 ' ' 2B;2 42 G:3 5 ?92'
25B2 42 <+ 5328 JB ;5G28 4:53 <+98 29B8 28< .28
8:53 + ;253 B28" :5 R' 4 83 5J92 ' + ' =:9+?92 8:BK
J=:' (, , ' E0 JB 54 ;++23 4& 5420 JB:8
; ++23 , ' + ' =:9+3< 2 8 ..= B 52 Q :+"
, ' =5' ;++23 42 . B2B 20 JB:8 ;+
4:53 + ' 3 J2 <293 :9B5 B 49 89.B2" + ' =:9+?92 25
G<' (, ' " * , ' =5' .:98.:90 ; ++23 " .= 5"
42+20 " < 5 .9+2 82BBG2 <B28?92 25 G< " 23 + ' =:9+K
?92 4& +2< (, ') " '=5' ?9' .B:3 8<:53 "
5G;253 4 58 +2 ; '4' 42 9B:<20 25 RB 20 " 9G P
" =:9+?92 + 529820 , ' , ' = ' ?9' 283 28"
<2.2 + ' <+98 .: ; ;952 4 58 5:3B2 < R8' IL 5 4 3
988' =:9?92
-' (!' 3' , ' :BJ2 8 9E J20 49 JB2:
?9'3 253 " '3 B2B
3' # ' Q=:9</0 6' 2B3 <:9B <<2+2B :9 =:9"
<2B 0@92+3 9&950 :9 <:9B 2A. 32B 95 .=2E +

0 'Q=:9*<G0 <G2/0 " ' " '42 =:9<2B'
5 .= 8829B =:9<G < B +28 <?929B8
'# ! 'Q=:9*<2*; 5/0 ' ' .3:5 42
=:9<2B
' 'O I'(' *!(' "/%"/#-(%"(!/' 7'0/#;'!-%
4&!(-"!'(.*-:' 2*/$!("(' #-."'(2'-(' "% 6*!4"@
+"/(#" 4"'(*/"(,!-' ("+;&*-"/% (1"/%"'"044"&"
&"(!/"(&"(0!%"'(60//-(("+"/(#" 26".0!:' "%
"/(!-%" #"(;*!'#*//"+"/% #" %0+;*!'("% '"%"/@
%-(("+"/(#" %"''*+4"%%"(' $' A '%' -'4' YM
'Q=:9*<G/' ' ' 2B;2 42 .= 882' <<2K
+2B 8:5 .:;< J5:5 < B 95 =:9<'@L 2 =:9<2B0 E'
' & <<2+2B BG.<B:?92;253
'$- ? ' "
3' # 'Q=:9*<2*B:5/0 ' ' 5 428 5:;8
49 B2?9 5
%' # 'Q=:9*<G* /0 ' ' 5J B ' 5:B
=9<<G 42 R2552 Q: 82 9/
'Q=:9*<&/0 8' ' 0 882;G+ J2 42 38 42
+ 520 42 8:+20 :B; 53 95 G:9?920 952 3:9 2'
=:9<<2 4&952 .2 539B2' 52 =:9<<2 " <:94B2B'
' 2B;2 42 G+ 8:5' :9 2 42 8:+2 ?9'32B; 52 95
.:B4:5 42 8: 2 253B2+ .G 23 <254 53 49 .= <2 G"
2+2 82B3 42 3 ;GB2 9 .= <2 9 428 . B4 5 9A0 B.=2"
EG?9280 GEG?928 23 <B:3:5:3 B28' IL] 2B;2 42 "
+:J 2' +:.:5 42 <+9 ;28 ?92 .2B3 58 :82 9A <:B3253
89B + '3G32' IL 23 32 3:9 2 G3 +G2 42 <: +8 25 ?92+?92
< B3 2 49' .:B<8 4&95 5 ; + ' IL 2B;2 42 G:3 5 < 2'
23 32 3:9 2 42 <: +8 G3 +G8 " 2A3BG; 3G 4&952
JB 58' IL " B 2A3258 :50 .=2M +28 =: ; ;280 3:9 2
42 .=2E29A 89B +2 42E 53 42 + ' 3G32' . 923 " + '
=:9<<20 :532 42 2BB 9+3' IL"0 ' =:9<<2 4&95 B"
GB20 8' 3G320 8:5 3320 8' . ;2' IL] 2B;2 4& 5 "
3: ; 2' #:9<<28 52BE29828 +28 32B; 5 8:58 428
52B 8 :B; 53 +28 < <+28' IL #:9<<2 49 ;253:50
<23 3 ;98.+2 G< 8 8 39G 9 ;253:5' ILN6 <8:5 + "
EG2 23 <BG< BG2 <:9B G3B2 +G2' ILC0 :93 42 + 4&:B0
4& BJ253 :9 42 B9G 5 2 +G ?9' 4GG:B42 +2 2B 42
J9 +2332' IL F6 #:9<<2 G+ 5.=20 =:9<<2 428 B"
GB280 4 E2B8 .= ;<J5:58
-' 'O I8' 52 3B:988:92B2 4&:B .32 " .:B42b
+ 2B280 :" + R ' 9 G:93 952 =:9<<2 4&:B 23 " 9K
3B2 G:93 95 .B:.=23" G+' 428 'N6 8GB 20 3' 0
<' B' O I8' 3 +28 < .?928 42 R8. R20 9A <: "
J5G28 42 E2+:9B 0 =:9<<28 42 5J28 42 8:R20 !'
*-:' 'Y' + 283 52.288 B2 +" '3:9328 +:923328
253 + ' =:9<<2 89B + '328320 .: ; ;2 4 3 ;:5 4280
? '9 ' B' BGB28 ;:53 58 25 =:9<2 H&G"
+2E 5310 ,/' , ' ' 0 <' M)
-'$- ?' 2 ;G;2 ?<2 =9<<2" X ++:50 =:<20
," '8:B32 42 =:9<<2 ?9' E 253 " 2A3BG; 3G 428
GE28"5:B; ' ," ' =:9<<2
0 'Q=:9*<G0 <22/0 <:B30 " '42 =:9<"
<2B' 2 + ' 8: 2 =:9<<G2' IL 2B;8 42 G:3 5 ?92'
B 58 =:9<<G20 JB 52 89B;:53G2 4&952 =:9<<2
42 <: +8' ' 2B;2 4& = 83: B2 5 39B2+2' $9' 283 4 8"
<:8G 25 ?:5 42 =:9<<2
3' # 'Q=:9*<G2/0 8' ' 2B;2 42 ; B520
.9;2 GJGB2 ?9'@ ++ 3 42 E J928 82 =29B3 53 952
.253B2 93B2' IL B254B2 + ' =:9<<G20 8 8 B +2 ;:K
;253: + + ' E J92 283 = 9320 <:9B <<B:.=2B +2 4&95
E 882 90 :9 <:9B 4282254B2 4&95 G 3;253 4 58
952 2;G B. 3:5
-' (!' ," " ' G.9;2 ?9'.:9B:552+' E J92
G3 53 .: ;< BG2 '952 =:9<<2
'Q=:9*<2*+ 5*46/0 ' ' 8<G.2 4:'
4:9 ++2332 :9 EG32;253 +:5J0 :9 3G0 5:5 @983G0 '
; 5.=280 " .: + <+ 30 ?92 +28 =: ; ;28 ;233 253 < B"
428898 +29B = G 30 23 ?92 +28 <BG3B28 <:B3253 25.:B2
= E2B < B*428898 +29B 8:93 52' :98 8' =:9<<2"
+ 542 :J2 3 +2 .:29B 4&95 4 5J2B29A < ++ B40
' ' 2 8 B2 >2 5 42 !:53 J9 93 .:5K
49 3 49 <23 3 .= 32 9 9A = 280 = 9+ 88 8 89B 952
.= BB23320 EG39 42 8' + EBG20 8 E: B 4&952 =:9<"
<2+ 542 ; *< B3 2 42 B:9J2 23 42 e 520 +2 .= <2B:5
42 ;G;20 952 := 9882 B:9J2 23 93B2 G+ 5.=20
428 G<2B:58 4:BG80 +28 ; 58 + 2280 429A 3B: ;<23328
42E 53 +9 0 ! 1' '0 'C> '3' E0
<' 0 4 58 *! 'IL 5 JG5GB +0 EG32;253 + BJ2
?9'82 ;23 < B*428898 = G 3
'O I'(' "!:'""-/&!'"(#!*" #" ;'*#"'-"
,!-' (*/% 0((-"((!" "(40!&&" ("/"(%'" #" #"!:'
6*!44"&0/#"(' ' " ' ,7'4' %)M' 10!%'"
4*'%" !/" 6*!4"&0/#"' 10!%'" !/' 4*!'4*-/%' 0!%'"
!/' &*#-"'' '4' %%)' NN:.I' (' " 2*+*%(" ("
%*!+0 "/' !/" '!"&&"' "% " (" $-% #"(0'+""40" !/'
(-"/' .0'&"%5 "%9"%"'%*!%"(("(0'+!'" " .0&' "%
."(%-% -0 6*!44"&0/#"" #" (*/' .0'&"%5 ' ' '
'RM' O I'(' 0 #-2%" #0+" "(%*-%.."(%!' #" 7'0/%
'*;;" #" ."&*!:' 2'0+-(8' "% (0 6*4"&0/#" #" #'04
#1*' 4' C ' #0/(1' $' '1' "
* ' MI' (;'-"'%' / '4' 'MA' 1"(% 0((0.*-" #"
6*!4"&0/#"(4&0-/" #" #'04 ' &0-/" "% #" (*8"

[illegible]

[illegible]

[illegible]

2'3B:9E ' '+2' ; B?9 '42' :54:B.23'?9 ' & '89B3:93' * G:98< ++ '42'+ 'G:552'8:B32 'A8 ' N (# '3' SSS '<' "f' F6' ' 'G:98< ++2B 5'# ' 2' 3:9B ; 2532B'B95' & 93B2' 8'82' 8:53'=:9 ' ++28'E E2* ; 253
-'# 'O I' ' 5?928' 98'G:5 3 53' 983' .= * 3 25'32BB2'42'8 BB M 58' <B 8' 2' 9'8 'G 25'=:9* .2< 5J5 2M :5' 25 B3' 9'23+ 425J 2M 25' 'CCN" ' '+:98'+2' <B253' < B' JB 53' B' '4 58+2' G:9.2< 5* J52'23' ; :B3 3G' B 'LS E6' ' ++8' E 5B253' .:9B B' 5 ' 9' 4 3' J92323'32+2 ; 253'+2' =:98< J52B253' < B' +2' .= <2B:5 ?9& + <2B4 83'+2 58' 8:54 3' .= <2B:5 5 1B \ '&!7 'LAE6' '> .?928'+2' 29' 4 83' 9A' 89<* <+ 58' ?9 ' 82' '+2' E: 3' G:9882< ++ 2 25.:B28'L+2 ' =:9882< ++2B: 3' 8 '
' ' :B; ' / !7 A #' 2M' .:5@2.39B2'?9& + 42B E2' 42' & 5J+:*8 A:5' & - ' 5@9B 28' =2E +* +23' 4 ' & 5J+:*8 A:5'7 - ' ; +3B 32B'427 '7 ' =:B8 23' - ' - ' JG32B 4 3B9 B2' .=2+2B .B: 3'?92' / !7 A*' 2 3' + ' :B352' <B ; 3 E2 23'2 3 4 8<:82' '+2' B 33 .=2B' 9' + 3 5' (7 (7 :' <: 532 J9 ++:5 42'8:B32' ?92' / !7 A #'&!7 7 #'82B 3' J9 ++:552B' ! 8' + 283' < '8 G+2' 4& BB E2B' '?92+* ?92' .=:82' 42' <+98' <+ 98 G+2' ' :B ; 2' 5. 2552' 283' &!7(/ - #3'+ ' : ; 2' 89G84?92532' 283' 6!7)' 3' :5' 4: 3' 4:52' R' E: B' +2' ; :3' 6!7 '&!7(' .: ; <: 4' E2.' / - #' :9' A #3' 23'+2' 3:93' 8 J5 * 2B ' / - #' :9' #' H8 8 BI' '6!7 '+2' EN32* ; 253' 42' 428898 23' J9B4 ; ; 3 G 33B2 3:9B ; 25K 32B 82.:92B* &283' 58' '?9&:5' 4 3' <:<9+ B2 ; 253' 3: ; G2B' 89B'+2' . 8 ?9 5' 42' ?92+?9&933'
3' # 'Q=:9*8< *++:5 A' ; :9 +428/ ' ' #:3' 3: ; G4' 25' 428943942' 23' ?9 ' 8 J5 _ 3' 95' <23 3' .:9<4 ' E 5' :9' 4:' + ?929B' E2B84' 4 58' +2' E2BE2' 42' .2+9 '?9 ' +:53' 42' G: B2' 95' JB 54' .:9<' ' 52' B2K 982' < 8' +2' G:98< :5 ' :
- ' (! ' K !7 A#' &283'G' <29' <B48' &4?9 E +253 42' .2' ?9&:5' 5: ; 2' <:<9+ B2 ; 253'+ 'B 5.2332 5:9K E2 9' .:9<' ?9&:5'82' 3'E2B82B'8: *4 8 53' <:9B'B 5.2B' +2' E2BE2' T ,
'QG:9*8 B*@/ ; 'LL 6' .3 :5' 42' =:58* 82B' 6' 3B2' 42' =:988 J2 E:R' 9 ; 'LL 6' ; :' ?9&:5' 4:552' '+ ' .+439B2' 4&95' ; :9+ 5' 'E253*
' ?' !7 #
'Q=:9*84/ ' ' 2924' + .B: 3'G2 9* .:9<' 42' =:9A
' ?' D!7B
'Q=:9* B/ 6' ' :R' #988 35
' Q=:9*8&/ 8' 6' :B32' 42' .:9E2B39B2' .3 .=42' '+ '82+2' 23' .:9EB 53'+2 ' < B3 28'<: 32B 29* B28'23'+ 34B +28' 49' E253B2' 49.=2E +' #:988242' 4B <' #:9882' 42' E2+ ; +B8' LH#:9882' 42' < 24 ; 9' =:9882' 25' :9+ 2B8 =:9882' ?9 ' 5:5*829+2 ; 253' .:9EB2' 25' < B3 2' + ' .B:9<2' 49' .=2E + ; 8' 4:53'+28' .4348' 428.254 53' <+98' G 8' ?92' + '@ ; G2' 49' . E + 2B' LL#:9882' 25' G:3* 328 =:9882' ?9 '52' .:9EB2' ?92' + ' .B:9<2' 49' .=2E +' ' #:9882' 3B 5 532 =:9882' 42' .=2E + ?9' '<254' <B28?92' @98?9&='32BB2' < B+28.4348' =2E 9A' 42' ; 5' : ; 48' 42' GB 428' ' <+ ?928' 23' .+:98' 4& BJ253' '4&4* 3B 2B8' 4:B48' 23' ?92+?92 : 8' 4& BJ253' ; 88 E2.' 42' JB 5428' =:98828' 3B = 5328 '\' ; 5 4B2' 428' 9B.8 '1& # ' ' 'LL#:9882' 49' .:+ 2B + '<2 942' ; :93:5' ' 93B2' ?9 ' .:9EB2' 8:9E253' .2332' < ' 2 '49' = ; .=2 ; 253' 428' .=2E 9A' 42' 3B 3' LL 5 =:98820 ' .=2E +' 2'2B .2 ?9 <: ; <29A 3:93' ; 4B 32' B2<:9882' 3UE .: ; ; 295'G 5?9 2B 25'. BB:882'2325'=:9882) '@ ' 'C' $92' 4 3* + ++& 52I' ?9 54' 'E: 3 E2.' + ' ; :B3' 25' 3B:9882 :9B B' .G2M' 95' ; + 42' 95' 88 88 5' 25' =:9882^' '@ ' (; 'NN ' .:9E2B39B2' 49' 8 4J2' 49' .:.=2B' LL#:9882' 42' . BB:882 .:9E2BK 39B2' 42' E2+:9B8' :9' 4&2. B+ 32' ?92' +28' <B 5.28828' 23' +28' 49.=28828' ! 8 ; 253' ; 233B2 ?9 54' >+ 29B' <+ * 8 3 89B' & ; <4B +2' 42' +29B' . BB:882' LQF6' :9E2BK 39B2' 4&43: 2' 4JGB2' 4:53' :5' 82'82B3' <:9B' J B 53 B'+28' ; 29G+2842' <B A' + 52' =:9882' 42' + 932 9+' HL"6' 5* . 2552 ; 253 .:9E2B39B2' ?92' +28' < R8 5528' 82' ; 23* 3 253' 89B' + '3432' 23'+28' 4< 9+28' <:9B' 82' h' 53 B' 42' + '<+9 2' 23'49' B: 4' LL 5. 2552 ; 253 #325'=:9882 + 3' ?9 ' E 3' 428' <25328' 428.254 53'@98?9&25'G 8 23' 5:5' 428' B 42 9A' 82' 3@B 53' 89B' 428' 3B 5 '28 ' N5' 3 B ' +28' =:98828'42'8:5' + 3' H49'B: I' 23' 42' .2+9 ' 49' ; B4* .= + 42' ++2B:R ; ' F" 7 '@LN6' 5E2+:<<2' ?9' .:9EB 3' +2' G:9.+ 2B' 428' .=2E + 2B8 ' '+2' .=2E + 2B' E:9+ 3' 2832B 5.:559 ' .:9E543' 8:5' 4.9' 4&952' =:98820 # 'H - ' E E "
- '# 'S 6'8' .=28'G+ 9A B .=28' ; 5+2 9A' .=28' =9.=28 B .=28' 52 9A # 532' < ' .2'E B2' 23' JB 82' ' , 'O' C7 4 58' '>> B' ' 3' 9* B253' : 8 '8' ; ' =:98428' 428' 28.98 23' B ; 3' <25498' 9'G:B3' 428'52 8 ' &25' 83' 24B2' .:32' 23' :8B2:3' 3' 952' =:9.2' JB 53' 23' + BJ2' :BB42' 4&952' 5: B2' #/ ' ' 'C" ' 3' ; 2' .:53 '+2' B:R' ?92' +283: 3' ; :53489B ; ' <23 3' B:5. 5 952' =:9.2' 42 '

8:R 'E28392@:5X ')'LQAE6'8' $9 53'2+2'E 53'<B 8'23' 2+2' E2 3' +28' 28.98' 4:53'+28' =:98828' 283: 253' 428.= * B428' < B' +28' .:9<8'?9&+M E: 253' B2.29M 2+2' <2B.253' & J+2' 5: B? 2 2B:R<:B3: 3 2B.2+GB2833'9 ' F' -'8 # ' 8* 3' 6!7 '&!7('&7('&7 ' 2M +2' 3 B2' 49' G 8*+ 3 5' &7 ('&7 (7 '?9&+B 3* 3 .=2' ' & 5.' = 93* ++2 ; '&7 ' :9BB2 9' 5' 52' 3B:9E2' < 8' &7 ('&7 (7 '4 58' 49' 5J2' 52 5* ; : 58' + ' .:5@2.39B2' 42' 2M 283' <B:G G+2' ' 2434' :5' <293' 988' ; 253 :552B'+2' \ ; BR' 6Q '.:9E2B39B2 " ' # ' Q=:9*82 842/ # ' ' 42 =:9882B' 28' = G 38' =:98848' 23' GB:8848
' # h=:9*82 822/ :4@' :5E2B34&952' =:9882' ! :58 29B' 82' ; 3' '8 ' 25+3B2' 23' 3:932' 8' .:9B <:9B' E: B' .2332' G2+2' E: 39B2' H42' ! ; 2' 4& * J9 ++:5I' =:98822 ! ' ; ; J' QJ' LL 2B ; 2' 42' G+ * 8:5' 2E + =:9882 .=2E + ?9' '8 ' =:9882 - ' ('!J 8' 5'+ ?92+2'G28:5J52 <:9B'=:98K 82B' + 4 32' .= <<2+2' 23' B ; : 2B 2' 428898' 4 .32 ' 2832' ; 8' 23'2 ; <+:R2' < B' +24 3' :+ B3' 42' :5 < 5* 3B2 82<3' < 2.28' 42' .254 9+A ' < 7B' <' ' !J 8 ' #:9882' %&' 8 'B:G2' +:5J92 ' A ' OO
- '8 # ' K !7
' # ' Q=:9*84/ ' ' ; :' 42' JB:8828' 2< 5J+28' <B:<B28' ' 33 .=2B'2582 ; G+2' <+98 29B8' 4:9K G+28' 4&23: 2
j' 'Q=:9*822/ ' ' 2 9' 42' ; :93:5' ?92' +2' ; 2J 88 2B' 3B E ++2' 25' + 52 23' ?9 '82B3' B2' 428 =:98828' ' , W
K ' ' K !7
'H=:9*82/ ' ' 233:R2B E2.95' G:98* 8: B' #:9882B' 952' 3 < 882B\' 95' ; 29G+2' LL G8:+9* ; 253' *3*:5' =:9882' < B3:93^ # 2' =:9882B 5 '# ' 3B2' =:9882' ' 28' ; 29G+28' 82' =:988253' 3:58'+28@:9B8 - '# A5 6'8' &2+2' 283' <B298' 23' G 25'2582 J5 2 2' +283'2532B' 59+2' B J5 2' 3:+2' 4& B J522@ $9&2' 5& B42' :9' + 2 2BB .=2' :9' =:9882 + ' .! ' ' ! J 8 ' 5'+9R' '=:988 '+2' 42BB 2B2 1 '17#! ' #' ""
- '$- ? 'K !7B3' / *' + 0 / #' &!7 #' ; +3B 32B* 4 58'+2' 2BBR &!7 #'8 J5 2' <+ 2B' 28' 8 53' B28* 8:B3* & 5 # / '&!7B' &!7 ' -
3' 'Q=:9*8 * / ' '82BB9B2' 42' .: B2' ?9 '82' 2B ; 2' ?9 54' 5'+ 882' B23: ; G2B+2' .:9E2B.+2 33 + 'Q=:9*8 *5&/ ' ' J92332' +2A G+2' 42' =:9A' :9' 42' 3:93' 93B2' BGB2 ?9 ' 82B3' B2' +2B 95' .=2E + :9' ' = 3322' 428' = G 38 428' ; 29G+28 23.' + 82' 3' <<:B32B' 952' =:988 52' 4& G 52 N' 'D #)' ! - ' ! '42' 3* :9 8' E 3' 29' ; ' .2 + .B2E '49' G:93' 4@952' =:988 52' 25' .= 3' 53'8:5' .=2E + ' ! ' ; EW' ; DJ' 5' ' 4 3' ?92' .28' 328' E +253' 3 '4:55 28' 9' . 8: B' <:9B' & 428' ' +2B' <+98' E 32' 4& 93B28 ?9& + <:9E 3' 8&25' 82BE B' <:9B' B <<2B' .: ; ; 2' E2.' 428' =:988 528' ' - '3' ' < ' "" ' >& '.: ; ; 25.2' < B'+28' .B:?9 J5:+28@2' .:53 5@92B ' < B'+28' .:9<8' 42' =:988 52 2589 32' E 254B:53' +28' .:9<8' 42' J 9+2 23' @2' 5 B ' < B' +28' .:9<8' 42' G 3:5 "G ' + ' 4' ! # ' A EB + AMM'
- ' &$- 'O I' (' 3'3:93' 5.:53 5253 + + 882' 8 '+ * ; 542' 23' <B 53' 952' =:9 8 52' 25' + ' ; 5 ?9 '5&28* 32 3' < 8' <+9 ' JB:882?92'+2' 4: J3 +:5J92' &952' 952' :9' 25E B:5 " '1! - 'AA
'$- ? 'K !7B
? - * ! ' 'QG:9*8 *5 5 2/ # ' ' 42' =:988 52B' 2' <:+ 88:5' G:988 5 '< '8:5' < B2
+ 'Q=:9*8 *5 / 5 ' ' 33B2' E2.' 952' =:988 52' #:988 52B' 428' ; 29G+28' L J' 23' ; + * B2 ; 253' 33B2' ?92+?9&95' E2.'E :+25.2' $' ' 3 'E * J:9B2982 ; 253' G : 98'
- ' 'S 6 F' #:988 52B :: 5 ; 0
V' (! ' K !7 -
' Q=:5*8 B/08 ' + 42G:9A' :9 9* 3B28' GB 52G J28 23 +2' <+98' 8:9E253 42' <+9 ; 28' + ' H+28' GB:88 2B8@E254253' 988 '428' B ?92' ' ?9& ' +29B' 283'+: 8 G+2' 42' B2' 29A* ; ; 28' 3:9328' 28< .28 42' G + 8' 23' =:988: B8' 42' 8: f' :9' 42' <+9 ; 2 - ' 4:* +: B8 ' < 3 88 2B8 ' J:9< ++:58' '+ E B+28' GB:.8 * 0 '" ' # ' 'D# #' LL#:988: B' 42' <+9 ; 28 28< .2' 42' < 8825+ 3'
'$- ' K!7 #
'Q=:9*8:5/ ' ; ' :R' #::A
3' _ 'Q=:9*83:65&/@ ' ' 2B ; 2' 42' G:3 * 5 ?92' 25B2' 42' J253 5 28' B25 2B ; 53' <+98 2988' 28< 28' 428' '3 38* 5 8' #:983:52' ' +2 B8' G+2928
3' # 'Q=:9*E / ' ' : ; '49' .B G2' 3:9B* 32 9" ' B 5E ++2' 23' 9A' 25E B:58
S' *: +/ ; ']' BGB2' 3:9@:9B8' E2B34:53'+28' 29 28' 8:93'+9 8 5328'23' B ; 28' 42' <?9 538 LL' #:9A' < 5 .= 28< .2' 42' G:9A' 4:53'+ ' 29 ++2' 2833' .=23 2 42'@ 952' LQ '82' 4 3' 98B' 4&952' . 552' 42' =:9A' :58' E2M + ' 95' @:+' =:9ALL' 2B ; 2' 42' G:3 5 ?92 25B2' =:9A B' 3R<2' 42' + ' ; ++2' 428' + . 5228

D' &:5' 4 83 5J92' ' "]'+2' =:9A' .: ; ; 95' : 7' +, ' , ' @ 6'+2' G:9A' ; 32 4 3' 988' =2BG2' :9' 3G '49' B J9 R 428@ 89 328 42' 8 53' , B3= +2 ; R <23 3' BGB2' J+ GB2' : 7' " , 4 ' + @ +28' 29 ++28' 25' 8:53' 2 ; <+:R228' 25' ?9 53 32' .:58 42K B G+2 4 58' & ; B ?92' ; B 4 :5 +2 8:98' :B ; 2' 4& 5 98 :5' 3= :B ; 2 '3 3B2' 42' G: 88:5' 83 ; 9+ 532' ' 6 #:9 * B2+:5 4 3' 988' <23 3' =:9A =:988:5 B * J ' < ?9 53' : , *, ' *, ' = 5 ' ; ++2' 428' + * + . 28' 8< B J 28 BGB 882' 9' ' B ; 2 9A' <+ 3 8' 8 ; 9+ 53' 428' 29 ++28' 3:9@:9B8 E2B3 28' 23' < ?9 5328' 23' 4:53'+28' B . 528' < 88253' <:9B 4 9B 3 ?928' 23' < ' B 3 E28' QE:R' @
- ' ' ' $9 53' +:?928' 53' 95' E + 5' $9 3 53' 95' = 8325' 25' 8 ' ; 5' $9' 2B3 H 3 3I' JB 53' 2' JB:8' 23' 42' =:98 25' ""F"' LLA E6Y' :9B' B2' J+98' + .:5E 253' <2+2B +2' G:9A' ?9 53' + 283' 25' 8 '8:E2 C ' N' LLAE 68' ' = 942 9A' 38' 42' <:9+ ++28' .9 328' 9A' B . 528' 42' <2B8 + :M2 ++2 <23 3' =:9A' 'SS N' B98.' 93B2 ; 253' 4 3' G:988:5 ' " ' ' 7NF' 2' =:9A' :9' ; 28<+ 2B' 8 9E J2' 283' 49' B 5J' 428' +2A ' DZ3
- ' (! ' e ++:5 , ' , ' 5 ; 9B' ' 49' J2B ; 5 ?92' ' 9.' G' ++2 ; ' 7 ' ++2 ; ' , ' 5J+' 4
3' # I ' Q=:9*M9*B&/ ' ' 2B ; 2' 42' .= 882' 8< .2' 42' .B: +32' ?92' +2' 8 5J+ 2B + 882' 89B +28' GB 5K .=28' : + + 82' B:332 23' ?9 ' 3' .:55 +3B2' + '= 9329B' 42' & 5 ; +
(' QG:* 4 <+98 29B8' 4 8253' =: * 4/ B' ; ' #:92' ' + ; 2' :B32 <+ 3 2 3 + 2' 25' G 82 '9 2 ; K <+:R22' 9' 42 :5.2 ; 253' 428'32BB 58' 23' 9A :58' 42' + ' <23 32' .9+39B2' ?9' 42' ; 54253' +2' <+98' 42' :B.2' & ++ M < 8' .B: B2' ?92' : ; :52' 23' 2B39 ; 52' E:98' 8 .G253' G2 9. :9<' 42' JB '4 E: B' 8 93 ' 25' +29B =:5* 529B g' +5&R' '4& 93B2' : ; :52' 5 '4& 93B2' 2B39 ; 52' ?92' + ' G .G2' 23' +2' =:R 9' 49'@ B4 5 2B ' ' & '@7 # ! - ' E' T
- '# 'S 6 8' 2' < ?928 42' =:2 9A' H +8I' B253' G 25' <:9BE24 3' 42' +2E 2B8' 42' 2B' +2M 23' J9' J, '"77"F' LLAE6' 8' 3' + ' =:9: 253' H+28' 5J+: 8I' 23' < .?9: 253' 42' < .8' 23' 42' =:R 9A' '+29B' <:9E: B' Za8' ' " " ' 3'+28' =:R 9A' 'B . 28' < B' .= * ; 58 ' ' 0 '0' F%
- ' (! ' ; 593 '42' , ' E2.' .= 5J2 ; 253' 42' J25B2
3' # (' Q=:* / 6' 2B ; 2' 42' < .=2' ' : 88:B =:R < : 88:5' ; 29B3B 82.:9 '4 58'+2' +23' :9' * Qn9 ' < B' 428' <: 88:58' E:B .28
3' # 'Q=9/ 5' :R' 6
'Q=9* *\ :/ 8' :R2M 7
3' # 'Q=9* *@/ ' ' ' 2B ; 2' 42' .= 882' 23' 42' < .=2' .3 :5' 42' =92B 42' .B 2B <:9B' 2 B R2B +2' J G 2B' :9' +2' <: 88:5
3' # 'QG9* * & >' ; :9 ++ 28/ ' ' 5 +2 .:=92' 2' <:9BB 2M*E:98' < 8' ; :B3 2B + '=9 +2' 8 * :2B4:3 +2^' ' = ' ' ' 0 , ' "fF ' (! ' ,
' Q=9* B +2' '52' 82' + 2' < 8 9' <+9B 2+ &8' 52' 82' + 2' < 8 +28' =9* B' 23 .2<254 53' ?92+* ?928*958' + ' 253' +28' =9* B*M*23 / 6' ' ; ' E9+* J B2' 49' 4 1 ' 'Q: 82 9A' ; < 428/ <* <2+ ' 25.:B2' <+:5J2:5' B.3 ?92 +9 ; ; 2' 23' <+:5J.: ' +9 ; ; 2 @ ; 2:
- '# AE 6 8' #9 B4 76
- ' (! ' , ' . 982' 428' .B 8' ?9& + <:9882 3' # ' Q=9*N/ ' ' 2B ; 2' 42' .= 882' <:9* E 53 + 3' 2.' +28' 429A' +28' 4&952' G982' :9' 4&9 !' 9+ 5 23' 3B: 8' :9' ?9 3B2' JB2+:38' 42' 9.:552B 2 j' # ' Q=9*G B/ ' ' 582.32' .: :<3 B2' ?9 ' 33 ?92' + 'E J52
' Q=9*G+:' +2' 3' 52' 82' + 2' < 8' 9' <+9B 2+ 6' 82 + 2' ' +28' =9*G :6M :9E2B38/ ' ' 2B ; 2' 42' ; B 52' R5:5R ; 2' 42' G9+:3 4:53 4 <B 8 > + + 283' 952' .:BB9<3 :5
Q@# ' Q=9*.G&/ ' ' ' 6' B 54' .: B2' 42' G: 8' <:9B< 3B B' :9' 82BB2B' +2' < 5' 2' 5 .=2' 23' 82' G+:33 3' 4 58' 952' G92G2' :9E2B32 ' - 1 ' 5' "F' =2M +28' < R8 58 + ' =9.=2' 23'+2' B9 3 2B 8:53' 3:9K @:9B8' :9E2B38@ ' 88 '33 ' 6' #9.=242' ; :9K + 5 .: +\2 42' G: 8 : '3: ; G2' + ' \B 52' 25' 8:B3 53' 42' 4288:98'+ ' ; 29+2" LL 6 2B ; 2' 42' < .=2' 882' ?92' &:5' 25 :5:2 4 58' &2 9' 23' 4 58'+ ?92+2' :5' 4 <:82' +2' <: 88:5' ?92' :5' 4: 3' .:58: ; ; 2B' LL" ' 2B ; 2' 42' ; 3 +9BJ 2' 9J2' ?9 'B2Q: 3'+28' ; 52B +8' G:. B4 8] 2B ; 2' 42' ; B 52' E B2' 25' =9.=2 5 E 2' <:9<2' +2E 2
- '# A ; 6' 8' = 8.952' =9.=2' 592E2 82' 2+2' E 93' 4:9M2' 425 2B8' :9' <+98 4: 3' :G:+2' 42' B E J2 23' + ' 2M =9.=2' 5 '4: 3' B 25 = / ' ' Y M' 2' 3 2B8'. 8 8 '283' 8 '.: ; ; 2' 8& 9.958 ?9 '52' : 3 < 8' ; 28' 8 B28 =B 82' ; 28' =9.28' :9' ; 28' . ; GB28 ' OOO O' M) ' : ; 2' 95' :58' H95' =: ; ; 2I' ; 2 83' 828' 42*

[illegible]

[illegible]

[illegible]

B3 9J 2B 2 '32BB '=9J 25:3 0 5U'+ '@ - 'W K !
!
V' ! ' :+3 B2 8 8< B2 < 2 .'4 56 XJ925:3
-'# 0@3E 6 80 52 8' +22 32B ; 22 4 ' < < 32 23 42
= J925:3 82 + 8253 2:' ?92+?92 + 290 .2 22B 0 25'
8 53 < B+2B ?92+?92 <8'+ 5' < 88 :55_' 23 8:9' 49
83 + 42 93=29B0 ' ' 0 20 ' + ' < B ; '
29A .:53B2 B2 ++ 9J985:30 9U'3 U')' 2 '<B:32 3 538
42<9 8 & <<2+2B253 =9J925:38 25' B 5.2 @ 4:53 +64
3R ; :+:J 2 3 3<B 82 '+' .:5@9B 3 :5' 4 ; G: 82 +:B8'
?92 .29B ?9'42E 253 <B2825328 + 'B2?92832 .: ; ; 2
28<2B498 42 .B 932 9R: 253 42 3:9 ' .:832MP ?92+0
?928 2 ; ; 28 42 'E ++ J28 4 B253 ?92 .283: 253 < 9
EB2 ' J2580 ?9' 52 E ++: 253 < ' 42 ' =9J925:380 ?9'
283: 3 952 :B3 <43 32 ; :55:R20 25.:B2 < B2 ?92 428
; ++280 49 32 ; <8 42 #9J92 ' <23 4:4 E 53 25
98 J2 ?92 < B ; :.?92B 2 :5' +28 <<2+: 3 =9J9G
5:380 23 82 5: ; 352B253 32+8 79 54' +8 <B B253 +28 B6
; 280 3 0"" ' 'B2+ J :5' G9J925:320 5'322'
2 5: ;' 40 J5:8 ?92 +28 cJ+ 828 B4 :B ; 228 E:R253
989B<80 .: 40 K ' <' N F' 28 42+28 42 & J+ 82
B2 :B ; 42 ?9 +8 5: ; ; 253 =9J925:380 ' 1 '<' NN '
#9J925:38 ?9' .:9B2 ' + ' B 5.20 #2 JB .2 328"
; :'E25J2 5.2 #952 988' ; 9E 82 ?92E:980 "
.-," ' - '50 "
-' (!' 5 '4:554 95 JB 54 52 ; GB2 443R ; :
+:J 28 42 .2 ; :3' :R2M .2+2 ?9' 283 B <<:B322 '
BG 83:B ?92 42 &7/!-' 23 ?9 0 E 53 4 9G J540 283
4:5542 988' < B 8?9 2B' 5' .: ; ; 25.2 42 4:5
52B ' 3:93 +2 5:9E2 ' ; :542 42 .2832 .3 :5 +2
5: ;' 23 3+3B2 42 =9J925 9A 4 93 53 ?92 + '<B2
; 2B2 428.:9E2B32 ?92 :5'25' ' 32 '2834 25'+ 'E 2
42 :9B80 : + +8 :93 :< 5 :5' ?9 + R0' 95'B G 83 H28<B 3
?9' B2E 253 42 59 30 ?9 +8 <<2+253 +2 3:R #9J:50
23 R <<2+2 :5' 4G8 < 2?' G9J25 9M 3:9 ' .29A ?9'
8:53 42 + '82.32 42 +E 50 <:9B B2 +29B8 882 ;
G+228 23 .:5E253 .9+28 42 59 3 .: ; ; 2 8'25' :2.R 38
988253 4 8. <+28 23 82.3 329B '42 :283 28<B 30 A A '
<0 F ' :R2M 988' 43R ; :+:J 2 ?924:552 832+5 9
.*428898' & <B''42 B 29A0 ; ' :B 329B <B:3283 53
.: ; ; 25?' 58'8 ' = B 5J92 ' #92 5:8 5 - 7 '
&7 '-! ' 23 B283 '.:9B3 42 ' #9J925:30 :93
.2+' 283 8 58 :542 ; 253' 52 43R ; :+:J 2 <+98 EB
82 ; G+ G+2 ?9 :5' ' 54 ? 42 283 +2 ; :3 ++2 ; 54< "/)'
-! - ' .:5 444B20 42 < " ' 82B ; 2530 23 H -! '
.: ; < J5:5 + ' :B ; 2 /-! '4 58 +28 !4 ; :B28 42
:542 & <<9 2' >+ 8 :5' ' :G@2.3" ?92 +2 8258 54
3 3 < 8 E:B G+2 G .2332 43R ; :+:J 20 ?:5 442B48
8 <<+ ?9 53 ; + G 952 82.38 B2+ J 2982 ?92 2 ; :3
52 .:583 392B 3 < 8 95 32B ; 8 4 5@9B2 .: ; ; 2 +28
. +E 5 8328 025E 8 J2 253 29M'B54 ; 280 23 ?9 + 82'
<:9BB 3 8 <<+ ?92B ?9 9A 9 8828 <B:3289 ; 380 ?9'
<:9B3 53 5:53 @ ; 8 <:B34 .2 5: ; ; ' "/ -! -
283 +2 3 3B2 ?92 82 4:55253 +28 .3:R258 42 + ' 9 8820
3 53 <B:3283 538 ?92 . 3G:+ ?928' 2 ?9' :GGE2 42
\' ; 52B0 2283 ?92 &7/7 -! ' 49 ; :58 .: ; ; 2
5: ;' <B:<B20 283 532B 29B 42 429A 8 2.4 G+ 'B4U
:B ; 2 :5' +2 3B:9E2 4 58 95 32A38 4 + A E6 8 G2+2 '
2 C .:3:GB2 FC0 8. + #9J925:3 42 53 >95 25
25 ; :98 50 4:.329B 25 42.B23 'K ' "' '0#'
3'SS 0 <' C' 2 3 4:5520 :5' <293 4 B20 + ' .2B
3 3942 '+' .:5@2.39B2 42 ! =50 ?9' 8 58 +2 2:55 6
3B20 '4 3 ?92 &7/7 -! '283 95 4 ; 593 42 D7/7 '
23 ?92 +2 5: ; 0 25 3 53 ?92 32B ; 8 4 5@9B20 82 B 3'
3 .=2 G ?92+?92 G4B43 ?92 42 .2 <: ; ' :' ; :30 W
8258 4 ' . +E 5 83280 < B 33 82 3B:9E2B <:9B + '<B26
; 2B2 :8 8:98 + ' :B ; 2 42 &7/7 - 7 '4 58 952
+233B2 49 .: ; 38 42 ++ B80 + 29325 53 J45GB + 25
5J924:.0 49 5:E2 ; GB2 MM' QE:R' 9 '
K '"7'+ -/7 "'3'E/
'D6!@76"@/*@$E'X' ' "'+"' #"*!-@
(-/"' ?0'+&%"' #"'%"''"' (0/('4-"#('*#' */'$0-%"!-'"
&"('.-0/#"('(0/(';'!-%'('!"!/'$*!+"0!'40'2"' ,!!*/
4'"%"/# ,!"' &"('6!7!"/*%('#"' '0/2"' 0.0-"/%'2"%%'
4'"20!%-*/'4*!'"'.-%"'&"' (20!#0&"'0!:'9*!'('#"$"/#!('
' "%-%'$*!'/"0!'(!'+*/%"' #!!/"' +0'+-%"' NND !$(
' ' ; !7!"/*%"' *"'!$('2!&%(' #0/('##%9!('#"' +*!%*!
-'# 'S 6 8' #9J925:332 "' B2 .9B2 + '
E 5420 '
3'# 'Q=9*J=2*5:*32*B 2/0 ', # '
42 42 JB2 ; 253' B30 .3 :5' 428 =9J925:38' :9B
; : 0 @2' .B: 8 E2.' G2 9.:9< 42 J258 428<B 3 ?92 + '
=9J925:32B 2 .:9B3 :B3952 0 < B 3:932 & 9B:<20
4 23B2 E: 8 52 42 8 ' 5 3:9328 +28 <<925:28 E:53
n 0 ? ' + '50 YM
-'# 'S 6 8' 2 GB9 3 93 ?5 'R' E< 3 H4 58 + '
.:58< B 3 :5' 4 ; G: 82 <+98 42 ; +.:532532 ; 253
?92 42 =9J925:32B 20 !7 (?'" 'D#7 # '.3G4 58
!7 '" '@ D' : 3 "FN 0 <' "7N
3'# 5 ' Q=9*J=: ; :*3 *\/0 "; ' $9'
3 2530 ?9' << B3 253 9A =9'25:38
-'# 'S 6 8' #9J925:3= ?920 7
/ 'D6!@76"@/*H@%-@(+ :' ' %%O@

.=2 ; 253G+ 'B2+ J :5 # # 'F:5' ; 5'H42 ! ; 2 42
5J2 8 80 <<2+ 3 :B4:5 5 +2 =9J925:3 8 ; 2
E 3 3 2"' ; 5 J20 [' ;ED' ;aE
'$?' , ,
'Q=9*=N/0 E:R' # 6*
'Q9 /0 4:' 42 32 ; <8 82BE 53 G ; B?92B +2
@:9B' :4' :5' 283' :98 82B2M +2 < BB +50 4G8 =9'@2
E:98 25 <B 20 ' 'D -"#' 58 4 A ; : 8 4=9 0
@2 E:98 8 <GB2 25 50 * 5' ' L 5 32B ; 28 42 <B K
3 ?920 .2 @:9B40=9 0 +28 .= ; GB28 882 ; G+428 LL' #9'
'E32 ++ 0 :5' 4 3 9@:9B4 G9 + 283 ; +=29B29 '?9 :5
3 .= 5J ' .2 ; :3 <:9B 95 ?9 E +253 8' +:9B4
-' 'OI'8' $9 53 :' H 9@:9B4 G9 I 2: ; 25. 283
HE:98 *.: ; ; 25.2MI 0 # / ' "' O ' <' "N70
'S 8' :+ 58 ; 8 5 2M H ; :5 52E291 =:3 .283 @:9B
5:98 Q 2 93 H5:98 ; 5?920 283 ; :B310 1&' "' .' !
-.' :5?9 8 H +I & B' 4:' .283 @:9B 25 4298 ; 2 80
G' .A25 ' L A 6 8' #9' 283 '@:B ?92 +28 .:5E 253
; :9B B' :52' <' N ' 9' .283 @:9B 25 95 5 8: 2M
<B283 4:83: 28 H ++2B 25 J92BB210 @ B'AE' 2 JB 53
=9532 ' 4 ; 52 298 X '2832B8 H3 B 810 ,&' ' # '
7' 'A 56 F' 882 .: ; ; 2 9B + =9'8:9 2B3 <28 53
3: ; + 'D # 'AAE'H I' 83: 2 =9' ; 5 H.2 ; 3 5I
E2592 <:9B + ' ; 2882 28.:932B0 G' .A ' 2 5283 ; 2
52 49 52 4 2B $92 B .=28 J258 :93 JB 53 <: 8
8 5.2 2 B2 :9 42 :9 JB2E 5.20 ' .! '"288'
:M E:M @:B5:58 G 49 ' 25 ?9 582 @:B80 25 32 + 90
#' 50 0 B20 83 +0 2283 <:9B .2 ?92 25 H:5I
<B 82 8' <:9 H<29I +28 2A.: ; ; 95 2 ; 258 =9'23 3:98
+28 @:9B80 > #E' 8::' LAE 6 8' 2 5283 < 8 4=9R 52
42 & 93B2 82< ; 520 $92 3:93 G <+ 3 R 342 E:98
B2 980 ' 'g' %N' $9 + 8: 3 58' <+98 3:83 =9R
?92 42 ; 50 5'-' F' ' 283 25.:B2 <:9B +2 @:9B
4G9 + G :9+B 428 5:9E2+28 42 +9' 23 42 .28 .253
28.980 8<'1!- '.E
-'$- ?'e ++250 :9 2 <B:E25?0 &! '&7 /'&7! '
:'@2 3 +' G5J28< J5'&!/['<:B39J'&!; 3' 7 '!// 3
49'+ 3' &!" ' .:53B .3 ' 42 &! '" ' .2 @:9B0 D7 '
?9+ 283 3: ; G '25'4 89 39420 52 B2832 2 ; <+:R '?9
E22 428 <B <:8 3 :580 23 52 82 ; G+2 <+98 B2 95 4
E2BG20 ; 8 + 283 <+2 52 ; 253 4 58 5. 2552 + 5
J920 G ; ; 2 3 3B2 ?9:'&!" '25'+ 3 5
0# 'Q9 * '@/0 '35' .3 :5 4=9 +2B0 425
49 B20 42 B:332B 4=9 +2' =9 + J2 4952 ; G2=2
<2B ; 23 42 29 + ; ; 2B <+98 . +2 ; 253 LL ; ; 288 :5
49 .:3:5 4 58 95 ; + 5J2 4=9 +2 40:+ E2 23 42 9
+: + 52 L B2 ; <2 428 + ; 28 4 58 95 G 5 4=9 +2
'$- ?'$&!-&"'
'Q9 * D/0 8' ' '>6 ?929B JB 882 3 B 2 42
:+ E2' '52 8 9B 8 E:98 <+ 54B2 42 50 E: B <: 53
42 G29BB2 25 B:E25.20 <9 8?92 E:98 E2M 42 =9 +2
4 ; B G+2 23 42A.2+253 <: 88:50 8 E'+ ' "7 N
#'"NC ' 29A 8 + 428 ' :53 =9 +2 42 :B3 +: 5
8 8 88 3 :4:B 30 3 5 J2 3 4 58 428 +:38 42 E
5 JB2 B:8 30 '@ '-/' 9B +28 3B < 248 B42538
G9 +2 "' JB 548 #:38 B9 882+20 +'0 # ' 0 F'
' = B +' ?9'52 ; 23 ?92 42 G9 +2 89B + ' <+ 2 5
E 3 B 20 ' 'D ' 283 '2 < 8 +9' ?9' ' E2B8 '
42 B=9 +2 89B E:8 <+ 28 5' 1 #" '. ('&7 '
9 +2 E 2BJ20 =9 +2 4:+ E2 42 <B2 ; 2B2 2A<B288 :5
G' + '32 ; < B 39B2 :B4 5 B20 L e +2 42 B: 88 J20
=9 +? 2G32592 < B 95 <B2 ; 2B <B2889B J2 L #9 +2
JB25920 =9 +2 J 225 <23 38 JB 58 LL #9 +2 : ; <=
.520 =9 +2 ; B2 3 B 2 428 :+ E28 25.:B2 E2 328'
'#9 +2 8 93 20 28<2.2 42 B J: \3 <B:E25? + \ 3
b E2.' 42 =9 +2 3B 8*.= 542 L #9 +2 4:5.3 :50 =9 +2
8 5320 =9 +2 4:53+28>9 8 82 82BE 253 <:9B :5
8 2B2B' + <B 3 988' =9 +2 4:5.3 :50 4:53 + ; 3
89B +2 3 G2B5 .+2 23 89B 3:9328 +28 .=:828 ?9' 82BK
E 253 "'8:5' 98 J20 <'D '+"5 ' ' " ' 2
JB 54' <B 3B2 '89B +9' B < 549 =9 +2 8 5320
' G ' ' ' 252M0 42 G9 +2 8 532 + G93
E:98 .:58 .B2B0 "' ' 0 ' ; 92 + E 3 E B8
42 =9 +2 89B + ' 3 ; 32 42 9+0 5!7 'C 7# ' " '
28 8 5328 =9 +280 .2 28 4:53 :5 82 82B3 <:93 +2
.=B ; 2 23 2A3B ; 2*:5.3 :5' 252M0 <B 3B28 49 2 K
J529B0 E252M 8:9325 B ; :5' 5 +B ; 3 ' 42 E:3B2 = ; +2
4:9. 88 5320 <9B 532 23 .:5 :B3 3 E20 '
0#" #' "' ' !# 'C' ' . B4 5 + 42 :G 5 25
E:R ' .=2B.=2B +28 8 5328 =9 +28 H<:9B +2 B: I0 !
8 !'" %0 " ' B 2A3258 :50 5: ; '4:55 ' "' 3:98
+28 .:B<8 JB 8 QR .: ; <B 80 G 25 25325490 G9 +2
4: 2/ ?9' .:582BE253 3 3 + ?9 48 "' < B3 B 42
+'32 ; < B 39B2 42 "N6 "' 6 .253 JB 428 +8 <:B3253
J +2 ; 253 +28 5: ; 8 40=9 +28 JB 88280 4 G9 +8 A28
#9 +2 42 8 8 ; 2 #9 +2 4 B .= 42 28 =9 +28 52
JG+253 < 8 < B 32 ; 2530 230 9 + 29 40 9J ; 2:32B
42 E:+9 ; 2 G '+ 'J2+ 20 .: ; ; 2 2 90 2+28 25 4 ; +
59253 +:B8?9 2+28 82 J2530 '<B ' 7#'6 5 / '
"6 4 ' '#9 +28 4:52280 =9 +28 A28 + ; 253 B28
:9 ; 4 2+5 28 5:5 <9BJ 3 E28 L #9 +2 QB ; 5428
4:9.280 =9 +2 <B < B 2 < B + ' .: ; <B288 :5 428 ; 5
428 4 ; .28 253B2 429A <+ ?928 .= 9 28 G 2 9

41 $2 ' ' .' '2' 1M 21 '. 'M .J'
M4 ' '. ' 1Q #. ' J ' ; $2' .'J .
4 J '12 <$ ' ' ' 4 ,$2 '2' J .'
. ' '1 M ' 'J1 ' .: $' ' ; $2' .'JE)
I$ 4 $2' # $ ' . ' M J ' . 'JE I 'J 2)
$I 4' '2 < ' 1 ,J21 ' ; $2' .'J12['
. ' I E $2' 1. $' ' 2 ' < $ ' J)
JE , ' 'J1M $M ' . '1 * ' * " '
' '1 * ' " ' ' ; $2' ' .2 E $2'
$ ' . '2 ' 2 ' '?$ ' M 2 J ' 4 1$'
-E $2' .:12$I ' 1 ' 4$ <' 2$M $ ' 'M .$J 2
' ; $2' . ' 1$2 E $2' ' I J :M . ' .
$' . ' ;7/ - '# / ' ' , 1$ '1 '4 JE . 2'
.: ' ' I .4 .: '1. ' ' ' ' I
J$ 2 ' ' 1 1 J ' 21 ? : 2' ' ')
'4 ,1$.'P:E $2' # $M ' . ' 1' 1$# J1
, 2JE ' I $' ' I ' 1. ' ? ' 1 ')
, $1 ' '<1 ' ' , M .' J 2' . ' -12$I
? ? ' ' 'K' ! 'NN ; $2' .:1 $2 '1' .
I1 .$' $ E $2' 42 JE 4 $2' 2$M 2 $'
14 ' '4 1Q ' ' '1 M ' 4 2' '2'
< $ 'J1 ' . '2 'J 2 ' .' I1'$.$
< '$2 ; $2' .' 1$# 1. $' M < '2' <1)
.1 ' 4' ' ,4 $J $1 ' '?$ M42 '4 :E $2'
.'J .'I $ 42 .:1 $2' ' 2' 4 $I M '
E $2' .'J . ' ; $2' .' 4 1M .1 'I' -E $2
92 :9B5 3 952 JB 52 :+ J 52982 ; 82 952
29A G ; 2 :8 8:98 2 < +:5 23 G 3392 42 5:9E2 9
'#9 +2 49 52J +0 8R5:5R ; 2 4=9 +2 42 < + ; 2
; $2' . ' 2M)JE $ $ E $2' . 'J 1 :E $2'
. J ' ; $2' ' . ' :J , 4 $2' ? :1' ^
$' . ' .:J , ' '2 'M ' ' ' ^
2 ? ' . ' ' 2 42 M ' JE , '
' : '41 $2 ' ; $2' . '4 2 $ '1' .'J)
J .$ '4 1 'E $2' .' 1$ 1 < $ ' 2$? $.
2 M M 21Q ' . '2' ' '?$ 1)
I$ ' . '2 . ' 2 $ J J .$)1 .
J $' ' 1$ 1 '$' ; $2' ' ,1$' .'M1 E $2'
$ ' .' ,1$' 'J ' $ ' 1$ 1 '
' M1 $ ' M 21Q ' 'M . J$ ' 'O$<'B
E $2' . '2' '1' '2' , #J$ '
$1 ' . 4)I$12 ' ; ' JE ' .-4 $2
2' ' : 'I' M $ ' .$' .: ' M I $ ' J^
$1 '? $ .M ' .2 4$2 .: ' 1 '?$ '
:,, J ' ' ' ; ' JE ' .:E $2' ?$:
1 1 $ ' .$' . 'J $ '211 'M I $ '?$
I1 ' 1 1 ' ' <<I ' 'B' ; $2' !'4 ,2
E $2' 1I ' 1$' .'M $4 'M$' 2 1$' .
M $ ' I < 2 1$' .'M $4 ' $M
? :1 '4 ,2' 1 ' :4J2 $ < 'P 'J$? ? $ '
M$2 Q ' $ ' 2 '2 M (' $ ' ' 1$ '
.:E $2' I J 2 ' ' 1 '>/ #' A ' [#I
' . ' .$'21 < M 'E $2' !'? $? ' 1 'E $2'
!'4 .2 ' ' 1 I <' ' :E $2 -1 'E 2'
4 J1 ' .:4 $2' . '2 '2 M ' 1 '2' , $ ' :)
4)\2$ ' $2 ' ') I $2 ' ? 2? ,1$ 1'
I $2 'B' 2' 2 ' . ' ' $ '2 M $2 U (
M1 E4 $ J1M 1 'J 'E < ' .M$ 42
.1 ' ' I$ # .$ $ '? : 2' $ 'OE $2
1 'M ? '? : 2 '4 2 ' I 2 ' I J 1'
' 1$ ' ' ' ' ' > ,/' 'I' '
. '1 N X' ' ' ' :Q ' 2 ' .:4 $2' . '2 '2 M
' .$' .: ' E1MM '? $ - $' '. I$ $2 ; 1 '
' $' M1 ' ? :4 $ ' : J $)1 ' ? :$2 +
1 I $'M 2'$2 :Q D $' 2 ' .:E $2' !'2 '2 M I)
$; ' 'TT' 2A M ' . ' E $2' . '2 '2 M 2
M 'I$? $: $ ' !" ; $2' $JJ $I E $^
2 ' ,$# ? $ '2$. J$ 4 0 $ 4 1 4 '
$ ' ? $ ' .:1#Q< 'J1M4$ ' I J =
< ' ? $ ' . ' J' < [' ' @
J' $ ' 1 ' , $ $' ' 1 .$$ ' 1 ' !
04$' ' ; $2' 'J $ E $2' $JJ $I '41 2 '
'1 E $ ' ,1$'2 ' 1$. ' .'2$ E < ' _1)
2 ' ! 'OE $2 J1 2 '4 1Q ' ! :E $2' 1 '2)
$ ' ' 'C $. ' !' :E $2 $. ' I J . 'J1 ^
2 '4 1Q ' !' $ $2' 42 $ ' !' :E $2
P$ I $1 ' . ' $. '4 OE $2' ' .'? $ [$4M'
$4J2 'I$ ' . 'B ' .'G < $ ' ,2 $< .
P:E $2' < ' ,1 M ' 'J 'J1 2 ' ' J2 'JE1)
? '? $ $ '2 'J2 $' 4 '2 '1M4
' ' 0 ' ' C>,/' '#I
2 C $ ' 4 OE $2 2 'M $ 'J 21 '4 1Q '!
:4 $2' ? :1 ' M 21$' 1 '2' $ '44 $M
' ,$e ; $2' Q 1< '1 ' M Q M $? ! 1)
. $ '2$? $. '1$ ' '$, J '?$ 2 ' . '2
.$ $2 $1 !' , ' ' . 4 J '1< $?
'T" ; $2 'M$ 2 E $$ ' 1I ' . ' JE$
4$ M$ # ' . '1 J ' 2' ' . 12
; $2' . ' 12 1 $M 2 M 2 1 '4 $2'
. ' E $2' .' $ E $2 'M$1 F 2 1 ' . '4$)
M 'M1$ '2$? $. '? '2' E ' '2' -4 4 2.
.'J ' . 'O ' 1 ' 1 I ' 'M1 < ' 2 '
N(# 2 .' 1 21 'M1 < ' . ' :E $2 !'J '? : 2

[illegible]

, $ $ ' #(J '2 ' ' . ' J1 $2' ' /')
,1$ E $ $ ' I$ $ $' 1,,2J$ ' 4$ 1 '
, $ ' 2 ' I$ $ ' . ' I $ # M JE . 1$' ' 2 '
1 $ 1$'$' : ' . ' 1 ' ' V I ' : 4$)
M ' . ' J1MM$ $) $ $2 Q I $2 . '
E $ $) $ 'aTH ; $ $ ' , $ $ M ; '
.$' .< M ' 1 ' 1 $ ' # 1 '
JJ ' JE J ' ' ' I 2I 2 ' 'P ' < 1 J ' .
I$ ' ' '$ 1. $ ' P: ' E $ $4 ')
M ' ? :$2 1 ' ' ? :$2 J$ J 2 !(' '
=7 - '

-' # 'S#6 8' 88 2B +2' B2 ' 2832 3 2 9' G 25' . :
523 M 2' +' 33B ! 3'+28 <:B328' 52' 59 42 8 9 8 3259 M
B'<9B +2' B2 ' 2832 3 2 4932M 2 .B2 ; 9M ,&' ' # '
38 ' 'A ; 6 8' 3' ; :53 ' ; :53 828 =9 88 2B8 42
E 53 9 . : 5 ; 2 JB 53 8 B28 1&# " ' . - ' <' 3C '
28 ' 2' J E: B .= B<253 2B8 =9 .= 2B8 =9 88 2B8
3:552+ 2B8 .= BB :58 . :9EB29B8 42 ; 28:58 23 3:9328
; 5 2B28 4 93B28 :9EB 2B8 ?9 ' 29EB253 49 3B25
.= 53 25' ; 2BB 29 5 ' " ' 3 " ' $9 <4' +28
=9 88 2B8 E2: 253 E25 B'+ ' B:R52 H ; GB2I 25'+ ' .= ;
GB2 +2' 3:R 8:5' ,$2[H :9 8 SI G 3: 253 +28 =9 8
42'+29B E2BJ28 ' ' AE6 8' 3' 93 =9 88 2B
4 B ; 28 49 B: ' 42 B 5.2 23 25' JB 54' =:5529B
42*+2M +2 B: 88' 6
' $ D ' N. D' &7 "> 21 C 3' '
J 2 '41 < $<'& & # ' 7 "3'G Q& #3' . '
2 ' ! 7 ' 1 $. ' ! 7 ' E $$ ' &7 #
' M $I ' 1 ' 4$ ' ' , 4 $J ' >&7 ' 1 '
4$ ' ' < .$ ' ">&7 3' $ ' 2 ' < .$ ' . '
. ' $4 # ' . I ' ' 1,,2J$ ' . ' $J
'K' ; A' 0 $) $ 7 ' ' X1M .: ' I$ '
$ ' . ' 2 ' M1Q ' $< ? $ I $' ' 1 ')
. ' 2 ' ,$1 $ 1 1 ' : M4 ? M ' . '
JE I #
'# $ 'D7 ' 1
; '0 $' 2 ' ' 2$ 'Y $) ' E1MM ' 2 ' ' '
1 1 J' ' . I E' ' J1 1 'Y $ JE I
#J ' ? ' . ' 14 $ Y ' . $. ' JE$2)
,$ ' ? ' ,2 $ ' $M' M M2 ' . ' .$ Y $2'
1 ' $: ' ? ' . ' 2Y J$?! $#
E $ ' P:E : ' $ ' . &7 3' J ' .
- $J2 ' 2 ' ' . : 1 1 E ' ' 1)
1 J 'Y 2 'E $ '1 ' .$' . ' M M 'J 'E $' ' 1' _ '
E $ ' 1 ' E $' ' 1 ' ' 1 M' E $' -
1 1 ' ? $2 ' JE. ' 2$ ' ' I J&7 'Y
E $ #J ' . ' 2 ' 1M4 ' J1M 1 ' I J .$#
1 ' I$ < ' E $Y .$#)E $.$ ' .$)[' $ I$ <)E 2
.$ ' I$) ' $'J ' J1M 1 ' J1M 1 ' $ '
J1MM &7 ' 2 $) $ M ' Y .$)[' $) ' E1MM .$)[' $
JE I # $2' ' .$)[, $:7 ";' -7 # =7 '
' e # ,1$? ' $ ' $ ' J '
/ ' TT J1 ' ' ? : ' . ' . ' E $ ' I$I '
1 ' ' . ' 2 ' 0#! ' " ' 5 ' 8C75#
' KTW ; 1 .:E $ ' E $. ' E $'
1 ' ' 2 .$. ' M .$ ' E $ 'B ' 1 M $
.: 1 .:E $ ' E $ ' ' C $ ' + ' =7A '
WK ' " ; $$ M ' C < JE $ ' E $ ' _E 2 '
E $' ; $E $' ' ' J $' 2 ' 1 .$ $ M Y
_E 2 'D ; $D ' '#' ' P ' 1M4 ' #)
$M ' ' E $'P ' 1. $' . 'E $ M 2 $ 2$ ' $#
' .$' . M M ' 2 ' 1M4 'E $ 7 !HP 'E $$ M '
1 ' . ' JE ? 'M1$ 'P 'E $' . ' , Q $ ' 2^
2$ 2 'E $' , I $ ' ' . $' . ' M M 'Y 2 'E $' .
2 '2 ' '/" P ' JE$,, ' ? $ M ? 'E $' ' E $' '
M 2 , $ - ; $ ' J ' ?) I$ <)E $' ' : J $'
1$ 'E $'0 7 ' ' . $' . ' M M 'Y 2 ' M 1E $'
" M ' . ' ' ' P ' J ' ? $ J$M)
$ ' E $' 4' 2 ' / - ' . ' 2 ' J1 2 ' E $. '
JJ ' 2 2 $ ' ' 1$ ' E $ ' Te M ' .
JE$ <$ ' E $' . ' JE$,, 4 . < ' .)2 ? 2
2 ' 1 ' . 4 . :)J 1$ ' ,1 M ' . ' 2
'J 2 $? ' :1 ' 2$? ' 2 ' $< ' . ' 4
' ? 0(' .$'Y ' J ' $, M '
,$< J1MM ' 2 ' 1 ' 2 ' E $' 1 ' I$EM
C ! -" ' ' J ' J 2 ' ,$ 2 ' . ' - 75 '
' 1 ' &7 ' ! ' 2 ' 1) . ' _ 2 ' . @
J1 ' 1 .:E $
' o ' ' 1 ' ' . ' U. $ S
2 $ $U $ $S ? ' U ? : $ $ ' ' . ' U. 1)
S ? ' 1$ ' . +! ' " ' H7 ' ' A2 < , ' C);
4 $ $ ' U$2S $ I1$ ' $ + ' ' 1 'E $
o o o ' o ' P ' J $ ' ? $ M: ' J1 $ ' .
I $ ' J ' $ ' . G $< ' ' ' ' (
? $; ' , $22Q .:E $ ' 1 2 ' $< ' ' 2
M ' . ' G2 $ ' 1$ ' $ ' + ' #J$#
' :9BJ9 J ' 5 7 3' X ++: 5 7 3' <B:K
E25^ ' ! ' 7 3' 28< J5 ' : . = : <:B39J ' ! !3' 3 +'
! !3' 49' + 3' ! !3' JB2.! AAQ U ++2 ; ' . =30*[5J+'
/& 3' <2B8 5 & & 3' 58.B 3 & -
' X 0 $) $ ' &' ' $ ' $ ' , $'
? :$2 :Q ' . : 2$ $1 ' $ ' 2$ $ 1 ' Y 2 'E $ $ $)
2 ' E1$ $ 7 (' 3'C $ ' $f J ' . ' 1 $ ' J1M)

8 2 42 =9 3 E2B8 ' 3 5.2 42 =9 3 E2B8 4 58 95 <+98
+:5J' :9EB J2
- ' (! ' @7
' Q9 *3=*5 @ G 25' V< 2 = 52 8: 3 < 8
8< B 20 + 5R ' 5 ' 2+ 8 :5'5 '+ 8:5' + ' =9 3 52
+28 =9 3 528/ ' ' 0 2B ; 2 . :+2.3 ' ' ; GB2 42
=9 3 :9 25E B:5' 52 =9 3 52 4=: ; ; 28' 52 =9 K
3 52 4:29 8' G8:+9 ; 253' #9 3 @:9B8' >2 + 8
82B ' < 882B 952 =9 3 52' 2 < B+2 ; 253 52 3 @ K
; 8 42 B2<B28253 3 :5' ?92 4 58 + ' =9 3 52 9
+!7 ' , ' ' >2 ; 2 ; 8 25 42E: B 42 8:B3 B ; 28
2 238 4232B ; 52 ' +28 + 882B 25' <+2 5' .= ; < <+9
343 ?92 42 52 < 8 4 :552B +28 .+2 8 4 58 + ' =9 3 52
9' ' :988 ' 1! - ' A' 5 83R+2 42 <B 3 ?92' '
. 982 ' 23 ' B2 ; 82 ' =9 3 52' 28 <B28 42538 B25
E:R 5 ' +28 B28 4 8253' ' =9 3 52 <:9B 3:93
42+ ' 5' J+2 89B 95' .= ; < <B23254 53 4B: 3
4 9G 52 2 3 <: 53 <<2+2B 95' J+2 ' + ' =9 K
3 52 :50'@ ' E 5
-' # A ; 6 8' + 4: 3 <:9B 3:9328 .28 .= :828
.= 8.95' 5 8 A 425 2+8 42 . :939 ; 2 9 B:R '<: 2B
?9 3B2 425 2B8 9A G9 32528 42 + ' : B2 53 2K
5 8 + 5 ' " ' ' 86' LLAE6 8' :552B 42+ R 42
=9 .3 52 6 ' 'DB
' K7 3' < :E25. ' 7 & #7
' # ' Q9 ' 3 5* /5 : ; ' " ' - ! # ' $9
3B2*E 5J38' + ' . J!! ' " ' G +23 := ! B 2
J+ : < ' GB ++ 3 9' <B2 ; 2B B 5J 253:9B 2 42 =9
3 532 ; M:528 8 28.B ; 53 42 + ' + 5.2 23 42 B
?92G982 :G3 53 95 89.2G8 <B:4 J 29A
K ' " ' >?(" ' " ' 7 =7 ' 3' ' < ' 6: ' +
E 2 ++ ' 23 2 283 4: ; ; J2 . B +253B 3 4 58 + '82B 2 '
. 5?9 532 D=: A 532 23 4 8 3 25' 5' ; :3 .2 ?9:5'
4 3 25' 429A
-' # ' S 6 8' :55 ' ' B 8 +2 E 5J3 95 2 ; 2
@:9B 42 @ 5E 2B 5' ; + 3B: 8 .253 =9 3 532 429A
+ # ' "7' " ' :!7# !# - ' - #7(! - ' 7# ' "
' 3' ! (! / - ' 42' ! ! ' =9 3
5 ' Q9 *3 * ; P' = 25' ? 2 2 = 52 8: 3 < 8
' B 20 + 5R ' 5 ' + 8 :5'5 ' + 8:5' +2 =9 3 ; 2
@:9B +28 =9 3 ; 28/ ' U 6 ? " ; ' ! # " - ' 42 =9 3' 2
59 3 ; 2 8 .+2' :98 +28 =9 3 ; 28 @:9B8 E:98
E 254B2M ' 2 =9 3 ; 2 @:9B 49 ; : 8 :9 2+ <3
?92 ; 253 +2 =9 3 ; 2 49 + * - (' 2B ; 2 4 5. 2552
+ J8+ 3 :5' #9 3 ; 2 425 2B 4B: 3 ?9:5' 8 3
< R2B 3:98 +28 3B2532 58 9A 25J J 8328 428 G 258
+ 5 8 428 2. . + 8 83 ?928 6 @ ' ' =9 3 ; 2
< B3 2' + 5 ' B2^9 ?92 +2 =9 3 ; 2 42 8 ' .B 5.2'
+ 5 E 3 ?9 95 =9 3 ; 2 4 58 + ' 2B ; 2
0 " ! # ' 4 58 5 4 E 8 3 952 25
=9 3 =9 3 ; 28 ' B: 3 42 =9 3 ; 2 4B: 3 4 42
?9 ' 82 +2E 3 93B2 : 8 8 B +28 E 58 25' 423 +'
' @ ' ' 2B ; 2 49 @29 42 < ?923' 8 ?925.2 428
=9 3 2 B328 42 + ' ; 2 . ' 2 9 B0' 4 32 988' 4 A
=9 3 ; 2 < B.2 ?92 :5' . :B <32 4 A*=9 3 'HH D ' :
' <+98 G ' 2' . + 882 428 . : ++ ' 8P +2 + 29' := +2
; 3B2 23 428 2:+ 2B8 42 .2332 ; 882 8 882 ; G+253'
' +3' . :+ 2B 42 =9 3 ; 8' = G:5' =9 3 ; 2
-' # ' S 6 8' 3' : 45 @2 8. =2+2 H28. 4B:5I '
39 ; 28 283 G+ 2 = ' " ' . ! ' . . AA ' A 6 8' 9 ; 2
283 4 5 J2 23 + ' 592 ; 2 42 5:M ' . ! - ' < ' C'
'A 56 8' 3 ?9 53 .28 < B3 28 8:53 2328 + 42 ; 29B2
25' B23 J2 95' X 3 8 ; 2 0 ' YF ' bb 9 B '
5' 42 JB .2 + 2 ; 2B.B24' <B 8 +28 =9 3 2 ; 2
<: 3 E2I 42 2832 3 ! B3 5' 4 283 5:' ' !
5
' K7 3' X ++: 5 7 3' <B:E25. '
! " - ' 7 - ' ! & ' ' 3B 8* 5: 2552 :B ; 2 ! " '
7 ' B2<B ' 532' 95 3R<2 ! 7 3 23 + : 3 8 ; 2 &7)'
' 95' 3R<2 ! 7
+ 2 ! ' Q9 *3 * ; . * ; 5 G 25' ?92 =
52' 8: 3 < 8 8< B 2 + 5R ' < 8 42 + 8:5' E2. ' +28
; :38 <B2. 42538/ "5' 5' =9 3 ; 2 + 29
' K7 ' ' +2 89 A2 - 3' X ++: 5
A -
3' # * ' Q9 *< /8 ' ; ' 2B ; 2 42 ; 98 ?92 '
5' =9 3*< 248 : B ' 2' 4:53+283 R 9A +28 <+98 JB 548
:53 =9 3 < 248 42 + : 5J Q D 0 M/ ' 28 =9 3*< 248
3 + ' Q9 *3B/ 8' [' 6 ! :++98?92 . <= +2
=2B ; <=B:4 32 B25 2B ; ' 4 58 952 . :?9 ++2 ' 429A
E +E28 4 882 ; G+ G+28 B 95 28 < B 95' + J ; 253' 5
@:9B 429A < +2B 58 89B +2 8 G+2 B25. :53B253 52
=9>3B2 ?92 +2 +:3 R' E2= 3 4 << :B32B ' '
0 ' 5 7' =933B2 283 < :9B +2 @9 J2 28 . +28
<:9B +28 <+ 429B8 ' ' 0 ' 28 8:33 828 4 9
3B9 ' 5 :98 E E :58 9' + 8 ! 288 29B8 =9+3B2 3 3
G :552 4 29 E E2M 25< A ' @ ' 5 ! ; 2 25 8
; 5J2B ' 42 ; 5' E:8 =9+3B28 @2' < :9BB ' G 25' 25
; 5J2B 988 <:9BE9 Q@9:5' +28 JB ++2 @2 3B:9E2
?9 + R ' @2' 52 8 8 ?9: ' 42 G BG B2 ' ; 5J2B 95
988 '@: ' <23 3 5 ; + 3:93 . ; ' + ' 1&)
- ! - ' ' 4 .2 ; GB2 CNC' =9+3B2 :9EB2 8:5' . +2
23 B2?: 3 E2. ' 2 9 42 + ' ; 2B 428 2:B<98.9+28 23

428 582.328 4 ' 4 B2538 J25B28
* " ' T , / ' 3' < ' R ' 4 58 c ' ! : 0
8 .B ' ; 2B 4952 E: A 3:55 532 @ BB E2 49
EB2 : ' ; E 3 <<2+ ' + ' 5 :9E2+2 42 + ' ; :B3 42
; :5' :5 .+2 ?92 @ '3B:9E ' ' 4 @2952B ; 5J2 53
8 '=9 3 ; 2 4:9M 52 4=933B28
- ' + , ' Z -: 25B2 3R<2
42 + ' ; 52 428 :83B . 28 :9 :5 4 83 5J92' =9
3B2 . : ; 283 G+2 4 32 8 ; <+2 ; 253 =9+3B2 2 283 .2+8
?9 ' 283 82BE 2 89B +28 3 G+28 ' ' = '
=9 B2 < 24 42 .=2E + ' " " ' = ' =9+K
3B 'E BJ 5 ?92 <<2+ 2 E9+J B2 ; 253 < B:J92 =9
3B2 .B 32 42 . :? . :5592 8:98 +2 5 : ; ' 42 .B 32 42
. :? 988 ' G 25' ?92 +2 83B: ; G2 .B 32 4 ' . :?
' #9+3B2 <2B+ B2 =9+3B2 : ' :5' 3B:9E2 +28 <2B+28
5' 8 3 ?92 2 283 ' + ' . + 882 428 =9+3B28 ?9 << B
3 253 .2 B .=2 . :?9 ++ J2 4:53 + ' . :?9 ++2 283 5
.B 83 2 42 5 .B2 23 ?9 ' :9B5 3 + 8 <2B+28
" ' M 5:32N ' #9+3B2 ' . ++2
82 4 8 3 93B2 : 8 42 =933B2 ?9:5' ; 5J2' :98
5 E2M @ ; 8 E9' + ' ; 2B ?92 4 58 952 =9+3B2 '
. ++2 9 0 '6 , ' 6'
' J' 283 952 =9+3B2 ' . ++2 2 283 952 G 32'
' J '23 ; + B2 ; 253' 2B8:552 839< 42' $92+2
=9+3B2 ' ' + .= 532 +@:92 . : ; ; 2 952 =9+3B2 +
.= 532 +@:92 3B 8* ; + ' "6 #9+3B2 < 529828 28
< .2 42 . :?9 ++ J2 ; B5' ' :54 G+ 5. ' #9+3B2
29 ++ 2 93B2 28< .2 42 . :?9 ++ J2 3 .=23 ' 42
<:9B<B2
-' ! ' 5 4 3 . +2 23 5:5' + ' . :?9 ++2 4952
=9+3B2
' A ; 6 8' 5' B 258 :B8 25' G 25' B2 52
82 E92+253 .B: 83B2 B 52 <B 8253 +2 ; 9542 + '
; :53 5.2 4952 : 83B2 + ' - ' 9 ' + 28
o ' 8 28 G28328 ; < B 23328 8:53 ?9 ' 52 82
; 29E253 495 + 29 . : ; ; 2 ; :5 28 23 :R83B28
? ' ' Y ' o ' 8' 93* + 2549B28 .2 8 5J+:3
H ; + : 2582I 58' . : ; ; 2 =9 83B28 42 $9 5. +
+28^ 4 ' , ' ' C ' < ' MMY 28 9+3B28
8:53 253B2M 25' 2+: 83B28 2 2+283 58 23 42 = B
3B29A 233 8 =:98 8 . : ; ' <28.=29B8 4:R83B28
:R+ ' 283 3 4 E2B8 4253B2 29+A 9 ' 2 ' 9 '
' o ' 8' :?9 ++2 4:29 8 . :?9 ++2 42 + ; 8
8:58 28. ++28 4:9 83B28 : ' - ' ' wa8
' e ++: 5 F ' 8' , ' <B:E25^ 23 28< J5
' 3 + ' * ' 49' + 3' ' :9' , ' ? '
E 253 49 JB2. ' BB<8:E
3' # + ' Q9 *3B * B 52 82 + 2 @ ; 8/ ' '
2B ; 2 42 M: :+:J 2' 25B2 4: 82 9A ?9 ' E+E253 4:
. :?9 ++ J28' 5'R' 4 83 5J92 3 " , ' ,
c 42 :B4B2 428 .= 88 2B8 4 3 988 ' < 2 42 ; 2B'
=9@3B 2B 5 ' 8:5' G22 25' =: .=2 ?92 <:9B :9EB B
+28 . ++28 4253B2 +28?92+28 +3 B2 8 ' < 39B2
C '3' o ' 4 ' MM
' ? ' $$%%-& ' "
V ? 0* , * ' Q9 *3B * *B/ 0 ' ' + .2 42 + ' ; 2B
: " ' 82 3B:9E2 95'G 5. ' 4=9+3B28 ' #9+3B B2 5 39B2+2'
#933B B2 B3 +. 2+2' & 6' 54983B 2 =9+3B 2B2
.2+2 ?9 ' 8 :. . 9<2 42 + ' < .=2 42 + E2 23 42 + '
E2532 428 =9 3B28
- ' (! ' ,
' Q=9*+ 5/ ' ' :R '
' Q9*+* / 8' ; ' : ; ' ?92 :5' 4:552 25
9B?9 2 ' . 2+9 ' ?9 ' 42E 253 <:9B 95' 829+ @:9B
<:9A 4952 2 ; ; 2 B <94 2 5' ?92 +2 <B2 ; 2B
; B ' <9 882 + J +2 ; 253 + ' B2<B254B2 ' + R' ' 4 58
.2332 E 2 G2 9. :9< 42 J2 8 ?9 ' 52 42 ; 542B 253
< 8 33 29A ?92 4 3B2 . ! 8 8' <:9B =9++ 8 25' .2332
: . . 8 :5 ' ' A ' 3 ; ' 6 , '
' < ' 9+ 83 5' :5' 2 G9++ ' 42 ; B. 542
9 ' , ' " ' * +, ' 4 3 2552 23 + RB .
' ' Q=9*+ : / ' 93B2 5 : ; ' 49 =923
b ' Q=9*+ : / ' 2B ; 2 42 ; B 52' 2K
3 32 :9E2B39B2 B:542 :9' . BB22 <2B. 2 4 58 + ' ; 9
B +2 495' 5 E B2 :9 4 58 +2 ; 532+23 495' 8 G:B4'
' #9+:3 42 ; G:889B2 :9E2B39B2 <B 3 ?9 2 6 + ' ; 9
B +2 49' 5 E B2 25' BB B2 49 JB 54' . G283 5 <:9B
+2 < 88 J2 428 . :B4 J28 :9 428 .= 528 ?9 ' 82BE253
42 ; G:889B2
' (! ' 5 , , ' .B29A +2 ; ' ' 4 < 8>
' QG9*+:* / ' ' 8< .2 42 JB:8 : 82 9
42 59 3 ' , ' 42 :B4B2 428 B < .28 5: .K
39B528 + ' = :+ :332 ?9:5' <293 <<2+2B 988 ' + '
. G :92332 5G B2 23 ?92 +28 B2. 8 <+98 253 5R. 3
. :B A :9 +2 . :BG2 9 42 59 3 283 + ' <+98 JB 542 42
3:9328 +28 <=:923328 ' C ' 3' < ' 88' :93
9B 3 3' 8 +25.2 8 58 +2 ,J2 ; 882 ; 253 42 + ' =9
+:332 ' 2 ' - E ' 5' 4 3 988'
=92332
' ' e ++ 3 49' + 3' , , ' . G:92332
?9 ' 3 253 - , , ' QE:R' - ; : ; < +2J2B ;
5 ?92 ' 5J+:*8 A' , ' 5J+' F ' 5 2B+' , 4 ' 5. '
= 93* ++2 ; ' , / * ' B+2 ; ' ; :4 ' < ,

3' # !'Q=: ;&/0' - #; (!-' ?5' ; W 92' 4:932 0'
B23 .25.2 0' ;< 3 25.2' + ' .: ; 32882' ' ++2M' <:B32B'
; '+233B2' ,U' 82332' '< B3' #9;'' +' R' ' .'?92+'
?92' .=:82 0' # E 5M0' '+ / '8: 0' N
3# ! 'Q9*; *G+& 0' ? '$9'<293 3B2' =9 ;
'AE '8' #9; G+2 0' :: ; 0'
?'K7 #
>! 0' 'Q9*; 50' ;=*5&/0' "; ' LL' 6' 5'
.:5.2B52' &=: ; ;2 0' ?9' << B3 253' ' D=: ; ;2' 25'
J 5 B +0' ?9' '+2' . B 23=B2' 42' B=9 ; 5 3 ' 'E 2'
=9 ; 58' &2 3' .' 952' E B 3 G+2' E B 3 :5' 4 58'
29B' 4:.3B 52' H42J' <B:3283 538I 0' 23' 95' 2 23' 42'
+ ' <2B< 392+2' 583 G+3 '79' 4: 3' B2' .:58 4 B2B'
0'+29B' B :B ;2' .: ; ;2' 95' :9EB J2' 42' + ' 5 39B2' 42'
.29B' ?9 0' 5& R 53' B 25' ?9 ' 4&=9 ; 50' 4: E253' 3B2'
4 88 < 8 0' 82+:5'+' ; A ; '42' ; +2+0' 'R #'A0'
a' % ' 5' 95' ; :3 0' +8' :53' <9' . +2 ; 253' :9' 82' 3B: ; *'
<2B 0' :9' 3B: ; <2B' +28' 93B28' : B' +' 50R' ' B 25' 42'
<+98' =9 ; 50' 5'K ' B0' F' 2' 5&283' < 8' 95' :9K
EB J2' =9 ; 5' ?92' @2' ; 4 32' @2' 52' 89 8' < 8' .'95'
= 83:B 25' ?9'4: 3' E:98' 4 E2+:<<2B' +2' 82.B23' 428' . K
G 5238 0' 5' &:B4B2' 428' G 3 ++28 0' 5'K - '8 ?-/ '
5.:B2' ?92' + ' 8 J2882 0' <B 8' & E: B' J:9E2 ; '4 J
8:5' 25 5.2 0' D 3' <:B3 ' 9A' <+98' JB 548' =:5529B8' 23'
9' .: ; G+2' 428' ! . 3 8' G9 ; 528 0' 5' ' , #
'*U' JB 5429B' 23' + 'J+: B2^ '@2' 52' <9 8' <+98' 8:9325 B'
.28' JB 5428' < B:+28' +28?92+28' D BB:J 5.2' =9*'
; 52' 3 .G2' 42' 8&' :9B4 B' 2+2* ; ;2' <:9B' 52' < 8'
<2B.2E: B' 8:5' 5 53 0' 5' W.=' 4& B ' :3B2' .:B<8'
H4 58' + '3: ;G2I' <B254' 95' 93B2' 5: ; ' .2+9' ; ;2' 42'
. 4 EB2 0' 4 3' 2B39++ 25 0' < B.2' ?9&' 5:98' ; :53B2' 25K
.:B2' ?92+?92' :B ;2' =9 ; 52 0' 58' +9' 42 ; 29B2' < '
+:5J32 ; <8 0' 5' ' ' H = :4:82I' @9J2' ?92' :29S*'
52' 82B 253' < 8' 2B ;28' 4 58' + ' :'?9' 8&R' 25J *'
J2 253' < B' 428' ; :3 8' B ' :G+28' 23' 8' =9594580'
0 ' '9 '409 ' 52' .:58 4 B 3 :5'
3:932' =9 ; 52' +28' ' B2325980' 'c ' 6
43 ; ' " ' '0 ' ! '3' E0' < ' 8' B252M'
J B42' 829+2 ; 253' 42' 52' B 25' ; +2B' 42' : G+2' 23' 4&=9K
; 5' '+'< 3 0' '' "' , ' '8 9B'
G 25' E:98' 4 4: ; ; J2B' < B' 428' .:58:+ 3 :58' 82.B 328'
42' 3:9328' .28' ;2B39 ; 28' G9 ; 528 0' 5' 1' 28' 3K
3253 :58 0' +28' B28<2.38 0' +28' : B 5428' +28' + 33253' 8 58'
+28' .:BB: ; <B2' H+28' + <= 538I' +8' 5&:53' 4:52' < 8'
952' B52' =9 ; 52' .2+'829' 42EB 3' 89 +B2' <:9B' +2'
42 ; :53B2B' 9A' 54 2580' ' J , ,"' ' X0'
<' B' :98' +28' B38' 8:53' 95 8' +28' 8. 25.28' = 9*'
; 528' &:53' <9' 42' +29B' 2 ; < B2' :54B2' +28' 4:*'
; 528' 58' JB 54 B' 988' + ' . BB B2' 428' E2B8 0'
0' 0 'B 5E2533:5' =' ' < R 88253' <+9343' .28'
<B 5.28' :BJ92 +29A0' 58' ?9&95' E' +' G 3 +' 3B 3 53'
+'B .2' =9 ; 52' 'D 5 +' 'LL+2' J25B2' =33*'
; 50' D2582 ; G+2' 428' 3B28' =9 ; 58' 52' 82BB B 3'
' :9 8' 4& E: B' 32549' 8 ' J+: B2' < B3:93' :=' 8 0' 3254'
+2' J25B2' =9 ; 5^ '3:93' +2' J25B2' =9 ; 5' 42 ; 29B2'
4& ..:B4' ?9& +' 5&R' 'B 25' 42' <+98' JB 54' ?92' <2' ?9& +'
3 0' 8' .2' 5&283' ?9&:5' E29 ++2' .: ; <32B' <::B' <+98'
JB 54' 25.:B2' 3:93 .2' ?9& +' 5&' < 8' E:9+9' B2 0' 23'
+28' =: ; 28' ?9& ' '4:55 28' ' 8 ' <9 88 5.2 0'
C #),&"#' 9' J25B2' =9 ; 5' 8 +9:58' ' ; +2 0'
! 8' ?9& *@2' 4 3' ^ <:9B?9:'.2' .= 53' 4& ; :9B^' 9A'
29A' 428' . ; <8' +2' J+ E2' 25.:' 8. 53 ++2' 58'
&: ; GB2' '<2 52' 5' E: 3' <: 54B2' +2' @:9B 0' 0
'U7 #'"/ ' LL' & ; ' 49' J25B2' =9 ; 50' 95'
=: ; ;2' ?9' <B:4 J92' '3:93' +2' ; :542' 952' ; 3 '
G 5 +2' >2' E29A' ?9 0':5' ;2' 4 83 5J92 0' 23 0' <:9B' +2'
3B 5.=2B' 523 0' D ; ' 49' J25B2' =9 ; 5' 5&283' <: 53'
49' 3:93' ; :5' 3 0' '0' 3' U' 28' .=:828' =9*'
; 528 0' 3:9328' +28' .=:828' 9A?92+28' &=: ; ;2' <B254'
< B3' & 5::583 5.2' 428' .=:828' G9 ; 528' 5' 5&25'
4 3' <+98' ?9&95' ; :3' H4&95' <: 88:5' B25: ; ' '4 58' +'
.9 8 52I2' @9J2M' < B' + ' .2' ?92' 2&283' ?92' 42' + ' J+: B2'
428' .=:828' G9 ; 528 0' 23' ?92+' . 8' :5' 25' 4: 3' : B2'
<B28' .2+ 0' 9 '233' 3 8' :98' E2BB2M' 4 58' 952'
829+2' E 2' 3:9328' +28' 2A3B ; 3 84 8' .=:828' +9 ; 528 0'
'#2 52' "?-/ 'LL#:R2=8' =9 ; 58 0' E: 28' =9K
; 528 0' ; :R258 0' E: 28' 4:53' D=: ; ;2' <293' 82' 82BE B0'
'5&283' ; :R25' =9 ; 5' 79' <9 882' + ' 8 9E2B0'
K # (' E0' ' ! 5 J2 ; 2538' ?9&952' <B9425.2' =9*'
; 52' ; & 9B 3' 58< B 8 0' ' = ' 11' 388'
38' =9 ; 58 0' +28' 38' ?9' << B3 255253' ' &:BK
4B2' 5 39B2+' : ; ;2' @2' 5& .B 8' < 8' 952' = 83: B2' 2.*'
.+28 83 ?92 0' ; 8' .2++2' 428' =: ; ;28' 42' ; :5' 32 ; <8 0'
@2' 52' B <<:B32B '?92' 428' +8' <9B2 ; 253' =9 ; 58 0'
M0' 2J E2' "'+!7 ' R' 1<75# '3' E0' <' B 0'
4 58' <:9 8' LL 233B28' =9 ; 528 0' < B':<<:8 3 :5' '
3= :+:J 2 0' .:55 88 5.2' 42' + ' + 33 B 3& B2 0' JB ; *'
; B2 0' <: 8 2 0' B= 3:B ?92 0' = 83: B2 0' 23.' 28' +233B28'
=9 ; 528' 8:53' 42E2592' 8' 3B 8*5=9 ; 528' :5' 5*'
@9B 2 0' :5' . G +2 0' :5' . ; 5 2 0' :5' 3' 428' .:9<+238 0'
' <" '= , '0'0!# MM' J' 23' ; *'
> B2 ; 253' & E: B' < 8' J9B2' =9 ; 52 0' ; 2B ; 2' =9K
; 52 0' 3B2' 4 :B ;2' 49' 4 +J9B 0' 2A.288 E2 ; 253

+ 4' ' 58' +2' + 5J J2' 428' ; :B + 8328 0' +28' 2328' =9K
; 58' 5' 4 83 5J92' +28' .328' =9 ; 8' 23' +28' .328'
42' B=: ; ;2' '+28' <B2 ; 2B8' 8:53' +28' .3 :58' ?9 ' 82'
:53' E2.' .:55 88 5.2' 23' + G2B3 0' 32++28' ?92' 42'
B254B2' 95' 82BE .2' < B' J 5 B:8 3 0' 23. ' +28' .328' 42'
&=: ; ;2' 8:53' +28' .3 :58' 54 +G B 28 0' 32++28' ?92' 42'
82' 8:9325 B' 4 58' 952' 2=932' 4 5J2B2982 0' 42' .B 2B'
4 58' + '4:9+29B 0' 23.' LL' 28<2.3' =9 ; 50' E:R' V
'01' +98' ?9&=9 ; 50' ?9' 2A. 42' + ' <:B3 2' :BK
4 5 B2' 428' :B.28' =9 ; 528' 52' 532++ J25.2' <+98'
?9&=9 ; 52' + ' :++ 3' 952' E2B39' <+98' ?9&=9 ; 52 0'
'K ' 0' ^' ' 58' &:BJ92 0' E: A' =9 ; 52 0'
E:R' ' "0' 258 G+2' '+'< 3 0' G 25 : 8 53 0' 4:9A'
23=: ; ;2' 283' =9 ; 5' 5' E 5?929B' =9 ; 5' 339'
2B: 8' ?92 0' <:9B' ; :'<+98' =9 ; 5' ?92' 8:5' < B2 0' # <*'
<:+R32' B254B ' ; '.= 352' <+98' + J B2^ '0& "# '
90' ' 2' 42+' +28' 3' H+28' B 5. 8>' =9 ; 58 0' =:8< K
3 ++2B8' 23' G:58' ; 8' 428' 4:9A' <+ 8 B8 0' 428' 283 58 0'
428' .= 58:58 0' . 5'K - '?' '0# -(' LL' +' 82'
4 3' 988' 428' .=:828' 3' +29B' 4 E:3 :5' 283' =9 ; 52'
23' 3B 3 G+2 0' ' , # ' 0' 2' # M 2+0' ; 2' B2J B4 53'
E2.' 95' E 8 '4:9A' 23' =9 ; 50' ; 2' 3254 3' :' ; 5'
23' ; 2' B2+2E 0' # ' ,"A ' 5' LL' E: B0' ; :53B2B' 428'
8253 ; 2538' =9 ; 58 0' ; :53B2B' 42' + ' 8258+G + 3 0'
42' + ' 25E2 # 5.2' LL' B:5 ?92 ; 253' 3' @2' E2BB 8'
; X *B' B=B2 0' 25 :538 0' ; B2' 23' 2 ; ; 2 0' $92' @2' ; &25'
8:92 3 8' 93 53' ?9 '42' .2+ ' - ' 28' 253 ; 2538'
=9 ; 58 0' ; :5' B B2 0' ?92' E: + 2' ' :B3 0' 0' '
+' & E: B' B 25' 4&=9 ; 50' 3B2' 49B 0' ; < 3:R G+2' >2'
B2548' JB .28' 9A' 4 29A' 42' 5& 3B2' < 8' 2 ; 50' :9B'
.:582BE2B' 25::B' ?92+?92' .=:82' 4&=9 ; 50'
' 0' B' J' &:5' 4:+3' 8' 5: ;' 4&=: ; ;2' ' ?9' 5& '
B 25' 4&=9 ; 50' ; '1 - - ' 0' F' 5' 4&=9 ; 5' 52'
G 33 3' 8:98' 8:5' ' 882' B ; 9B2 0' 'A " '5'
C0' D!- # ' LL ; B2 ; 253' 52' 2 ; 2' =9K
; 52 0' 952' 2 ; ;2' ?9' '<2 ' 42' B J929B8' <:9B' 828'
4:B 329B8' 2332' G2+2' 283' :B3' =9 ; 52' LLN6' 2B ; 8'
4 0' 83B:+:J 2' +J528' =9 ; 58 0' .:5832++ 3 :58' ?9'B2*'
<B 8253253' ?92+?92' J9B2' =9 ; 52 0' .: ; ; 2' + '
2BJ2 0' B :5 0' 23.' LLF6' @' ' &=9 ; 50' + ' 5 39B2'
=9 ; 52 0' +28' :B.28' =9 ; 528' 58' 4:932' :8
.=B 3 258' ?9&:5' <2B8 .932' 25' E 5' 53' ?52+?92'
.=:82' 25' 2 A' ?9' 89B< 882' &=9 ; 50' '0! '
0' 2' I C'%' ; '<' 58' +2' + 5J J2' +2E2' 23' <: *'
3 ?92 0' +28' =9 ; 58 0' +28' ; ; 28' S' .G 8323 '42@ 0'
+ ' B:9J25B' 89B' + ' B:53 0' E 3' .=2M' +28' =9 ; 58'
B2?9' <+98' 4&95' B:53 0' ' @ ' :98' E2BB 2M' '
B2 '23' ; 3.=2B' E<3B2' 89 32' 5' 54 J52' 2 ; <2B29B 0'
8 58' 2 ; < B2 0' 8 58' .:9B 0' +' 8< 23 +2' 9A' =9 ; 58'
428' :+G+28828' 4& ; :9B 0' 'D # - 'E0' N' 5' 52' E: 3'
<+98' <:9B' 5:98' 828' B24:93 G+28' ; 58' 2' ; BE2 +28'
8 58' 5 ; GB2' 2 +B R.B' +28' =9 ; 58 0' 5'? & ' '
! 5:8' @33J2' 9A0' 2532B8' 3:58' +28' < 28' =9 ; 58 0' B:'
06 "# ' E02 0' 93* +' 3:9@:9B8' 2 ; G 33B2' :9' 3B: ; <2B'
+28' =9 ; 58' 9 ' - ' E0' ' >2' 8 8' ?92' +28' e '
; 58' 8:535 8' J 9A' 23' B B2" 5' @(& ' 0' F' +28'
:B328' ; 28' 42' 229A' 2+' H+28' ; ; 58' 23' +2' B2.8'
< B 88253' 9A' 93B28' H+28' ; :42B5281' 428' 2A J B *'
3 :58' 42' ++ 83: B2' ' 8' 2A 83GB253' <:9B3 53 0' 23' .
3 25+' 428' =9 ; 58' . : ; ; 2' 5:98' ?9&283*:2' ?5' 5:98'
2 ; < .=2' 4& 3B2428' =: ; ; 28' . : ; 2' 2 9A ^ '
0! ! /- ' ' EB2' . : ; ; 2' @ 4 0' 9A' . = ; <8' 42' '
GR+:52 0' 53' E .9 0' 5:98' 4 3*:50' .28' < B28' 428' =9K
; 58' :53' +2' 5: ; ' 9A' 932+8' B2 ; <+ 3' 5:8' :8328'
8 538 0' 7 OH C / ' ! 38' <+ J5:58' +28' =9K
; 58 0' 23' + 88:58' +28' 3R3 58' &25E B:552B' 4& . 2B0'
8&253:9B2B' 42' ; .= 538 0' ' . 5' 'LL' ; *'
+ 2B2 ; 253 0' 9' 8 5J9 2B' &283' 95' G:5' =9 ; 5' 2'
; 2 ++29B' =9 ; 5' 49' ; :542' ; 253' E2.' + 'JB *'
82332' &95' <B 8 4253 0' G:5' =9 ; 50' 2332]' : 2 0' '+'
G9E2332 0' 2< 3 3 +2' E2BB2' 25' ; 5 0'
.7 ' - ' 7 'LL$92+?92 : 8' +' 82' 4 3 25' .2' 8258' 9'
<+9B+2+' & 3 3' 95' 4 '.28' =9 ; 58' 4 G:55 B28' ?9'
; 253' 3:98' .29A' '?9' +2' 8 5J' +28' + 20'
83' 1! - ' . =' N% LL ' 82' 4 3' 988' 9' 8 5J9+ 2B 0'
4 58' +2' 83R+2' +2E ' 28' +29E28 0' .28' G2BJ2B8 0' 425'
; ; ' 428' . 29A0' 3' 49' <B2 ; 2B' =9 ; 5' G2B.2 9'
4 + . 29A0' ' # ' A / ' "
- ' !' 58' +2' 8258' 42' 8258 G+2 0' G 25E2 ++ 53 0'
=9 ; 5' 52' 82' ; 23' ?9& <B=8' 8:5' 89G83 53
'S 68' 2'895' JB '+2' 89 B' 298' <9B' &9*'
; 5' <28:G 0' E' ' "F' U# $' 8' :5J 'H@2I'
42 ; 53' 3:93<B2 ; 2B 5' .2+9' ?9' <+98' ; &2839 ; 5'
3' 4:53' @2' ; 2A' +:92B' ; 2' 4: ' - 1 ,7' 6 4' B8'
:B8' 23' ; 2 0' ; 2 ; GB2 0' =2B 3 J2' ' <2B3' H ' G: B2I'
8:9E253' D9 ; 5' + J5 J2 0' 2, ' G:5' 8 J5:B' 5'
8' =9 ; 5' & 9B:53' @ ; 8' 8'. : ; ' +' 4 253 0' $&> ,?'
' =2' 8:53' =9 ; 528' < 88 :58' H8:9@2BB 5228I 0' $9 53'
+ ' ; 32B2' 283' ::BB: ; <92 0' '42+' .B8' 4&' . ; 2' 283' 4 8*'
8:+92 0' :9' ' # 0' <' N' LLS 6 F' +283' ?92' <:9B'
+2' 8 5J' =9 ; 5' E+32B' 23' J B42B4&28< 54B2 0' A4 '
' "> # '<' T T' 'AE 6' 8' '@498' . : ; ; 952'
428' =9 ; 528' 2BB29B8 0' ' ;Y' ' B .2' =9*'

+0-/"' + '-'A '%"('&"%%'"('6! +0-/"("%'&"('("-"/2"%'
;"'0&"0' '= , ? '-' ,!"&,!I(//!8'/"' .-"/%'
'0+"/%". *-"' "' 4*.'"6! +0-/' #!-/. *, !"' -"!' , !-'
0+"' !0-+"J ' '/' (" ' "('0/7"(' .*80/('
&"('6! +'-/(' 6*'(' &"("%'*!;&"(' "%' (* -*-%!#"('%"'@'
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D&"<"' +09"(% J' (1"/%"/#"/%' ("!&"+"/%'#"' &0' +09"(%'
6! +0-/"' "%' /*/' #-.-/"' ' '4' YR
'# 9 ' '*."/,' , ' P+*/520%0&' / A'
"(407/' '-%0-' , '#!'&0%-/' , '
#"' '6*++"
? ? 'D!@+ @/"@+0/E' 0#*' N I' *+K
+"'0/'6*++"'2*++"' -&2*/ .-"/%' '!/'6*++"' '
&0' %0 ; &"' (!0(("*-'' +0/7"' 6! +0-/"+"/%' '
' & +"' ("+ ; &"' , !!! /%*-, !-' (1"/%'"%-"/%'0."'
(*/'204-%0-/"' #"(' 70'#"(' 40'-"' !/'4"!'4&!('6! +0-@'
/"+"/%'"%' /"' 4'"/#'7! '"' 2"' %*/'#"' # +*/-0, !"'
'-+4' '3 ' &NNBI' !&.0/%&0' 4*'% "'
&0' 2040"-%' ' &"' 4*! .*-"' #"' I6*++"' S"' .*! ('40'-"'
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40'"/%(' U#"' &0' 9"!/"' $-&&"J' $&'"/%' 6! +0-/"+"/%' 2"'
,%%I-&('4!'"/%' 4*!'!'&!-'#%"'2"%%"' -# "' #"' "(4'-%9#I"@'
4*!("' '0%"(J' # ' ' I"(%@2"' 40('4"/("'%'*4'
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? ' '&/ ' NN ! +0-/"+"/%' 40'&0/%' "/'
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40'-"' #!(' 6! +0-/"+"/%' "%' 4&!(' -/%"&&-7- ; &"+"+'
-&' %0-%' "/%'"' 2-/ ,' "%' (-:' ? < '*' '-''
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#"' &0' /0%!'"' 40'"*44*(-%-*/' '(! +0%!'"&&"+"/%' /'
40'&0/%' + +"' 6! +0-/"+"/%' /*!(' /"' 4*! .*/('4"K
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$*!&%"' , !"' &"(' %6"*&*7-"/(' "(2'-."/%'%'*4' 6! +0-/"K
+"/%' , !"' 2"%%"' 0!&%'"' , !"' &"(' 6! +0:#(%"(' "(2'-@'
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' ? ' , ' "%&"' (!$$-:"' ' g0&&*/'
, %' % 'D!@+0@/&@<0@(-*/E' ' W 2%-*/'
#"'"/#'"6! +0-/' 4&!(' 6! +0-/' 0/#-(' , !"' 2"%%"'
0+ &-*'0%-*/' #"(' +2"!'(' #"(' 4"!4&"(' , !-'2*/(%-%!"'
&0' 2-.-&-(0%-*/' 0.0-%'"!' !/"' (-'6"!"!("-/$&!"/2"'
(!"' I6! +0/-(0%-*/'#"(' 7!"'"(' 4*; %-, !"(' '
S$#+' %, ' '&, ' '%'/'4' B
? - $-' 'D/@+0@/-@< ' M 5' " ' "
#I6! +0/-(0%' NN-X' Q!-'0'4'-(' &0' /0%!' "' 6! +0-/"'
4 26 "(%' 6! +0-/-("' "' /' &!-' U&"' 4 2 ; "'!'J5' *I"(%' !/'
6*++"'"#". "/!'4 26' -&' 4"'#'%*!%' ;-"/' ' "/@'
'*' ')' Bd "/#!'6! +0-/' #*! :' +*-/'('@
4 ' 0'." %!'26"<' "&&"' "(%' $*'%' 6! +0-/-("'
"' ' ' (
'D!@+0@/-@< E' ' O 'NN I' */'"'&0'
/0%!'"' 6! +0-/"' S"' 2'!(' #0/(' 2"' 40-/' U6*(%-"J'
, !"' /*%'"' $*-' 2*/(*++"' ! +0/-("' .*'; "'%' #-@'
'-/-("' I6*++"' ' ' ' . ') 'NN */'"' S'
2 02% '"' ; ! +0-/' ' U *2'0%"J' $!%' &"' 4"'"+-"'
2*++"' #-%' -2 '*' , !-' (I0.-(0' #"' #"(2"/#"'"'
$*'46-&*(*46-"' #!'2-"&' #"' &0' 4&02"' #0/(' &"(' .-&&"('
#"' I-/%'*#!-"' + +"' G$*/(' &"(' +0-(*/('40'%-2! "@'
"' ('I6! +0/-(0/%'4*!"' 0-/(-' #-'"' !/#0/%'
4&!('$0+-&&' '"' 4&!(' !(07"' #"' &0' .-"' 2*++"!"'
4&!(' &0'4*'%' #"(' 6*++"(' ' ' *'
: ' , %' '4' BR ' #0/(' @bF]' "/#!'"' ; */'
6! +0-/5' 2-.-&-("' %(' %'*!.0-"/%' +0-%'"' %*!%'
260/7 '#"4!-(' , !"' &0' 2*+ #-"' 0.0-%' 6! +0-/-('
'< ' *' '9*"' $&-%' (-' *22!4 ' '0#*!@'
Q-'' '6! +0-/-(" &"' '+2"!'(' #"' &0' /0%-*/'' "%' $0-"'
#"('&*-('4*!'' &"' 7*!."+"+"/%', !!-&'/!"/%'"4'-%90K
+0-(' '-"/' 2*/%'"' ("(.*-(-/(' '
>, /'%' '4' AR' */' 7/"$#I #*!0'#& J6! +0@
-(0'!/'4"/' #"('+2"!'(' #"' &0' /0%-*/' 9 ' A , '
A' YI' "/#!'"' 4&!('%'0-%0 ; &"' 4&!('$*.*'0 ; -"' /'0'
$*-%2"' , !!*/'0' 4!' 4*!"' 0#*!2-"' 2"%' 6*++"'5' #0/('
!/'%"' +('4&!'!"/%. "0!' */'#-%5*/'$*-&2"' , !!*/'0'
4!' 4*!"' 6! +0/-("' ' 'C1 /'4'("'
BMB' ' 0' ":%"/(-*/' "'40'0-(("<4*-/%' (-' (0.0/%'
#"'7' 2"8' 6! +0/-("' .*%' #-(**!('"%' 40'&"<4*!"'
%' "/%"/#!' 6 ' '9V ' ' (2' C'
' F' I6! +0-/-("' 'P ' ' "."*-"' 4&!(' #*! :' 4&!('
%'0-%0 ; &"' &/1"(%' 4&!(' (-' '". 2 ; "' -&' 2*++"/2"'
(! ; '!+0-/-("' 'Q!"' #!/!'4"/' 4-%&' %*/' +"' (!; !@'
+0/-("' '& "'/%' A' NNef "# /*!-&&"' #!/"

? ? ? MY

1 < ; ' ($$; ' $M ; ! ; ' , 1 ' . '
I$I ' ' ' ' :E M $ ' ' !' $2 '
, $' 2 '2 ' ,$1 . 'J1MM ' $$, $ $' ' :$< 1)
' ? 'J 'M ' . ' .$ # $M ' !' :4 M $ '
1 ' . '4 ('M1 2 ;1 ' & ' ' C 121< '
'2 ' . ' -4 M 1$ ' ' J1M 2M ' ,2 ' ? $
: $ ' <, ' ' , 1 ' Q2 $(M ' ! 1 '
. 1 ' ' 1 ' 1 < $2 :4 M $ '
'? , ' ' ' J1 ,1 M : JJ1MM1. ' !' 2 '
1 ' . ' ' I $? 1 1 ' M $ 'U. M'
. M $: ' ,1 ' E M $ ' 2' ' ' 1 1 ' '
4 J1 ' 1 ' # ? $ 2 ' J1 $ $ ' M '
J '2 M$! ? $. $' 1 ' 2 ' 41$ 7 $J2 $ '
. M ' 1 '2 ' M1 . D' 'B' ' $'
2 ' . 'J ' .$ 21<) !' 2' .$$ ' C2 1 1 ' .
M1$ ' 'M' $' 4$ '4 M $.
'0 'B1$<)Q' U!' J $ ' 1 ' .)
$ $ '12 . # <2 $' '? $ 1 'J
? $.$)1 :4 M $ ' ? :!' 2 Q1P '
= '9 ' 'M $ h /
' ' ;) I$' ' ' .M$ ' ' $M ' 1J '
J1 ' 1 < ' ? $) ' ' 1 . ' $M 2$J$ Q
' . ' $ I $ '? 2 1 ? ' ' 2 'E M -$.
'M $ ' . ' .$ 7 J: ' !' .$ ' $4 . !' 2 ' $'
1 'E M $ 2 ' E$21 1 4$ #1 . '2 ' ! '
'11J; g
' ' ,$ 'B2'
G_ X ' 0)M) $) D7 z ' ' ' _2 $? $
. .$'$ 'E M $. ' . '2QJ. 7J12 . < ' 'K" _2 $
? $ $? $ $< '2 'E M $ ' 'J' '$2
' ' .$' < . ' ? : I J ' . $4 . ' 41
I ' 4 M $ 'B ' J1 ' < . ' 4 M)
$ 1 I 2 M ' 2.' ' :.2 J ' 0 . . . $J
1 ' $< '2 2 < ' < J? $2U .2 JE 41 $
: I $ < . ' ' . ' .: $? $.' JJ2 $ $? '
I ' 1 ' $4 ' P E 7 ' 0 -1 ' $I)' 3'
$K" ' 2 M < 2 ' 4 M $ 7 J [? $,1 '
. ' : . ' . '2 < 'J2 $? '2 '4 ' . ' : $)
< M ' '1 1 $$1 ' !' ($ J [< $ ')
I ' !' :$. $
' ' : 'D ' c :$2 ' I 1$.' 2 ' . I 'J '
, 2 ? '2 ' 4 J.1<$ ' $I ' 1 '4 M $)
M ? 'J ' 2 17 ? '2 ' 4 M $ ' J$(
I ' 1 ' ' 4 121< 2 7 E' 7 ! $$

' ;_!P X A ' 0)M) $)) :7 c 'X 121)
<$ M c 5$ $. '4 $ G$.' $. ' '# ' ,'C '
$ ' . ' -E M M$ ' M$.Q . ' J1MM ' ' < .'
. ' 12 J $,

%' ? 'D @+0'/-@%M@'"@'-"E' ' ' 0'
7"/%' 6! +0/-%0-'"E' + *%' #"' 4&0-(0/%"'-"' "%' #"' #"/-@
7'"+"/%' $*-7#' 40-' ' #*' &&! (("%' ("' + */#"' ("0'
4%*4' ' "%' /"%' 2* + + "' ! ; "' #"' !"&%"Z' 16! +0/-%0-'"'-"'
"/' $"'0' (0' H + "&& E' ! ' ' ! ' ' ' !
' ; ' ; X A ' 0)M) $)) $(M:S ' '
\ .121<$ M ' Q _M ' .1J $ '4 M $ $
! 'Q9* + '5 *3R/0' 0' 'LL 6' 39B2' G9*'
; 52*' :52?928' 8' 42' < < 2B' +2' <:9E: B' ; &283' 434"
:9B' ; : '@& ; 2' 93 ; 3'<2B4B ' 928'BG9 ; ; 3 320 9 :3'
' ; ' @F' ' = 53'?92'5 :98' 8 : ; ; 28' JB:88 2B 0
+' 5:98' .:549 3' 58' "' & 4:B 3 :5' 42' 8 ' 4 E 5 34'
<B482532' 25' 3:58*' + 29A' < B' 22+2' 42' 8:5' G9 ; 5 32'
<B48 !332' 25' 95' + 29' < B3 :9+ 2B0' FU 3 ' '
8&4 2E2' *'28898' 42' BG ; 5 320' :88" D K' 0' '
>& 'H ; : '>4898' <B 8' 23B2' @: 9J' 89B' ; : "25' ; 2' B2*'
E43 53 42' E :3B2' .= 4B' ; :B32+223' 42' E :3B2G9 ; ; 320'
0' DB&! #' 7#' ' 1 ' !#A - ' ' #! '3' 7'
' e ' 2' . .=2' < '328' <+29B / .2882' 42' 3&25' 44*'
254B2*0' e ' 42' &G9 ; ; 4' + ' ; 3 '92' '<498 32 *'
4B @E 9 ' +3' ?' '>2' 52' 5 B 8' <: 53'89B' 42' h *'
B2 +28' 52.4 :328' ; 8' 2+28' ; 2' <2 J5253' &G9 ; *'
5 32' 3B :< 25' \ 40' ' ' & ; ; :' ; +29A' +28' :9G+ 2B' ;'
233' B>G:8+/ @9 5' "C" ' 2\'2 3' 9*428898' 42'
G935 9 32U .2+ < ! ' + '<:B342' :B4 5 B42' 4 8' B.28'
42' &G ; ; 2' 5' 52' E:98' 42 ; 542' < 8' 42' E:98' B4*'
.B 2B' ' .&283' 95' .=2 *4&.29EB2' 42' &28<B 3' 6 &=9 ; ; 34'
52' E ' < 8' <+98' + : 5U ' '5' '+' J ' R2B' +2' 3B G93'
" &=9 ; 5 340 . : ; ; 233B2' ?92+?92' _ G+28820' 23' 988'
; :9 B' ' ; + 4B2 ; 253' 2< :82B' 8 :5' =9 ; 5 34' 82'
B2< :82B' .2332' + : .93 :5' E 2 + ' LL 5' =9 ; 34' 42'
\ '< B3' 428' G: ; ; 28 ' 9<+ . 34' 49' 8 29B' 244 ' :"' @2'
52' 2 :55 8' B 25' 8' +' 93' 425' 8& 2. :939 ; 2B' "'
3:93' .B: B2' 25' G9 ; 5 340' 7 ' ! ' "'
A4#"'3' #0' <' M 0' ' 6' 253 ; 253' .3 ' 4 ' 25E2 +*'
+ 522' <:9B' 3:98' +22' G: ; ; 28' 2 ; <+ B' 95' 42E: B'
4&G9 ; 5+34' :98' 95' 9A' 82 ; G\53 4&9 '<29' 4&G9*'
; 5+340' ='0 # & #' EU " ' :5' 42' 5:98' +28' G4*'
B:8' 8 58' G5 ; 25 34*' :880' !7 ' " '@!7#6' 9' B2"
5:5.280' 82 J529B0' "' 3:938' G9 ; 5 340' ' @4#8-'
E06C' S' ; 25' 2:89B' 4< B49' &G9 ; 5 34' < B\ 30' '
' E' ' $9 54' @2' E:98' 42 ; 542' . : ; <32' 42'
& ; ' ?92' E:98' ; & E2M' 4:5G420' @2' 2B: 8' E:98' 5E *

32B' ' B2 ; <+ B' 95' 42E: B' 42' &=9 ; 5 340' ; '@' '
+ :' 4' @ -) # ' "' 82<3' "CNC" B+2B *@24& *'
B 83' .= :95' + '<B452' 23' & ; 2/ '83' 95' . :29B0 ; 8'
95' . :29B ' 20283' G9 ; 5 34' ; 4 ; 20' ' + '
"F6 ' ' :3B2' #9 ; 9 340' 80283' 4 3/ < B' 952' + 332B 2'
B28<2.392982' 8:98' << B25.2' 42' + ' ; + B 340"95'
3: ' 9' + 29' 42' :3B2' ! @2834' >2' 52' 8 +8' <: 53' ?9 3K
32B' ; 28' ; 8' <:9B' 428' B: 80' 23' @2' & ' ; 544' 3:93' 523'
"' .2' .= B ; 53' <B 5.2' ?92@& <<2+2' :3B2' #9 ; 9 34'
9' + 29' 42' & <<2+2B' :3B2' ! @2834' H B442B .I0' 9 '
+ ' "?#/ - ! - ' "F@9 5' "C" 'LLF' 5' 95' 8258 882M'
5:9E2 9' 23' ?9 ' 5&283 < 8 4 58' +2' \3 50' +2' J25B2' G9*'
; 50' +28' G: ; ; 28' 25' J454B +' . :58 44B48' . : ; ; 2'
:B ; 53' 95' 43B8' 2:++2.3 '<+98' JB 54' ?92' + ' < 3B 2'
0' E 0' @2' 32' +2' 4:552' <:9B' & ; :9B' 42' B=9 ; 5 340'
? ' *7 - ' '$92' 52' 4 : 3 <: 53' +2' B:R 9 ; 2' "'
95' <B 5.2' H :542' ?9 ' G:5:B4' \ ' ; 8:5' 42' B 5.20'
3:93' +2' 5 : ;' B 5J 80' 8 :508' 4.+20' 230' <:9B' 58'
4 B20' B=9 ; 5 34' 3:93' 253 4B20' ' +!7 ' "' D!7#N
! - ' >& ' 3 ' 4 ; B' BG9 ; 5 34' 49<: 48' 42' ; :5'
:BJ92 / 9 '? ' t0' C' 2BE:58' &G9 ; 5 34' <B28'
5:98' B254B:58' JB422' "' + ' 4 E 5 340' ' '2545' - '
' N' 0' 9 80' B=9 ; 5 34' 32' B2@2332' +: 5' 4&2+20'
' B3@8/ BE' 2 ' &G9 ; 5 34' ; 5?92' 42' 8 538'
<43B28' $9 '+29B' 253' 4 3' 25 538' 89 E2M' 8 '+: '
; 2B0' ; 2B0' .&283' 43B2' 93 +2' "' 8: 2' B2' ; 2B0'
.&283' 23B2' 93 +2' 9 ' 93B2 / 4 '6' @7 " ' #9K
; 5 3R0' B2J520' E: . ' 3:5' "J20' $92' 5 2' 25' E 5' \'
E: A' 428' E 29A' 4.=280' ' 'U7 # '4J28LL' 0 ? 7 7 -'
+ 8828' 4 58' +28' 2 :++4J2823+R.4280' 2 : ; <B25 53' &25*'
82&J52 ; 253' 9*428898' 42' \ ' JB ; ; B2' @98?9&"' + '
<= + :8:<= .'2A2+98+E2 ; 2530' 23 '328' 9@:9B4&=9 ' .+E 8K
828' 428' +233B28' +' "' 3' 828' G9 ; 5 34' +8' H+28' ; 4*'
42. 58' 8 E253' <:9B' \ '<+9< B3' 42' :B3' G2+28' =9 ; *'
5 348/ 8\E253' < B+2B' :5' G2 9' \3 5/ ' C ' '9?
' 2' 5+2.?920' B2+ J 29A' 42' 532* 252E 4E /
2A.2++ 3' "' B4J2532B' &4+: ?925.2' 23' +28' G9 ; 5 3480'
*8 ! 0' N 0' " "' #' H!' # ++2RI' 3' 828' G9 ; 5 348'
4 58' &4. :+2' 42' 3* 9+' 8:98' +2' 9529A' = : ; 8' +20'
0' ! /) 'D" /
- '# 0' A+ 6' 8' >4898' 2' H4J +I' +' <2B ' 833+95.'
+ '4 E 5 3230' ; 254B2' 42+' <2B2' H ; : 54B2' ?92' +2' <4B2I'
89+95.' + 'G9 ; 52340' 3) 2B - '<' MB*' #959B' 2
89. :B8' 2' =9 ; 5 324' ; 2' B253/ ? 53' @ :' ; &25' 9'<9B'
395 B2B2' G8 +250' :380<' F' B' +2 ; 5 832B2428 '
=9 ; 5 32 3 : B23' +' <2B ; 5 G+28 .B2 22/[:G0< "7 '
'A ; 6' 8' :52' 4 : 3' &25' <+ 52 ; 253' 5 : 2B' H5 2BI' $92'
+28' 29EB28' 4&9 ; 5 34' E 25J5253' < B' 52.288 3R0'
. ! ' "C"N" ' : :58' 23' 288 9< :58' \ '8 +932' B 5 340'
B' ' '4:9+M +M 29' <B 83' 5 :83B2' G9 ; 5 340' @' "
! M/ , :"F" 9.958' 4&29+M' E 2B253+29B8' GB 28'
3 ; :583B2B253' +29B' 42BB 2B2233 :938' B=9 ; 5 34' ?92'
+' <:B3 :+2530' :5' '&7 - ' : ; ; 2' <+98 29B8'
42 " ; 80' 9'32 ; <8' ?92' +' E: 253' G9 ; 5 34' H? +8E'
2531/ 70' LLAhE68 29842 + 8 R 532834 :B.2M'
< B 28' 5J+: 8' <B48' 952' 3B28' E J:9B2982B2\83 5.20'
+8' 82' B23 B2B253' 9<B28' 49' B: ' 42' B 5.2' ?9 '328' B2*'
.293' ; :9+3' JB2 \2 ; 253' 23' 32 ;' 3' B2' ; :9+3' 42'
G9 ; 5 3480' 1&# ' " '@' - ' ' "' 0' 4 58' ' ; '
'O I' 8' 3' 5&98 '< 8' :9R8' S '42' <+98' JB 542' =9K
; 5 3R' 25E2B8' 32' +8' ?9& ' E: 3 \ .3' 25E2B8' 32<2320'
$ +0' +!7 ' ' <' F"0' "N"N' B' @2' E29M' 25'
; :5' 8 J2' 952' <B2940= : ; ; 2' 288253 2++2' 23' 5E 5K
. G+20' ?9 '3 2552' 42' 8 :R* ; 28 ; 2023< B' 8 <B: <B2B *'
. 520' 23?9 ' 988' <29' 8&25' <9 882' BB .=2B' 23' 82< B2B'
?92' &G9 ; 5 34' 42' &G: ; ; 2' ' '/ @ / *'
/
V' ' B:E25<' 67 - '67 - '3' 28< J5'
&7 - " "'3 3 +' 53 5334' 4 ' \3 ' 67 -)'
42' 67 - 'G9 ; 5
3' # ! 'Q9* ; 5*3Z5/0 ' 0' 2B ; 24&3.G3=R2*'
+:J 2' :98*J25B2' 42' 879 +280' 4 :53' 952' 28<4 :2' 283'
<<2+42' : .= :5' ; B 5
'# ! 'Q # *3 *B/0' 6 4B ; 2' 42' J4 \ :*'
J 2' :B<8=9 ; 3 +2 / .:B<8' 2BJ8 ; 3848' << +' :934 4'
25 :9 8' 42<9 8' ?9& +' R' '42' &=9 ; 98
- '# (! ' 3' &7 A@9' 32BB2
! 'Q954U+&/0' " ; '/' 6' $ ' '42' &=9B +34'
5' = : ; ; 2' G G+2' 52' 2 ; 2' =9 ; G+2' <<B252M'
42' B : '?92' @2' 89 8' 4: A 3' =9 ; G+2' 42' . :29B0' 23' E:98'
3B29E232M' 32' B2< :8' 42' E:8' " ; 28U8 . / D @'
@ '\ 6' A*0' 7' :93' G9 ; G+2' 2GB43 25' 82' 2 :53 ; *'
32B ' 84 ; 2 3' 42' \ ' ; 4 ; 2' .2B3 3942' 89B' \ '@983 .2'
?9 :" 8?B' +2' 83493' 432 ; 2+0' ' B' AE0' j' "N"' +2'
. . '< # 3' 3:98' 28' 42E: B8' 8 58' <BR8: ; <3 25*0' 23' 23'
=9 ; G+2' 5 : *829+2 ; 253' < B ; '3:9388' 328' JB 5429B /
; 8' . :B2' < B ; '3:9328' +28' E2B398/ ; ' C #)'
, C ' 293*43B2' 5&283* +' < 8' ; : 58' B B2' 4 58' 32'
8 4.+2*' 23' 5:98' 82 ; ; 28' 3 @98?92' < B ; '229A' ?9 '
8253' 328 <+98' 4E4B28' <:9B' 29A* ; 4 ; 280' 42' 3B:9E2B'
428' = : + 2 8' "' .29E2B8' 42' & : J92 ' 23' G9 ; G+22' 4&28*'
<B 3' 23' 42' . .29B/ "' @"5 #' 4E:XJ' 6' E2530'
< ' " F' 293*43B2' @2' 42E 80' <+98' G9 ; G+2' ; ' ;

M$. ' 1 I $' . 'M1$ '? 'B' ' !' 1 '
, . ' ' '$ ' ; M42 ' . ' 2 ' 41 E
< . . ' : . I $. '2 ' 2 ' I ' 1)
I '2 ' I12 . " ' 0 ' ' M '
' 4 $I M ' ' I $ 4 M42 ' ' $ 1$)
< $. 'J 1E ' 1 ' 4 M$$.' ? ' 1 ' ' '
I ' 0 ' ' $$ ' ! !T ' ; #
.1 '2 'E M42 ' . JJ ' ' " ' 1 ' @ $2 ' ! 2
' :E M4 ' 1 ' ' . , ' ' - ' $ '
2' . 2 ' 1 $ ' . ' :E M4 '? :1 ' 1 < '
' 4' 22 !' P ' < J ' ' I . ' # E M42 '
? $ ' . ,$ ' ' ' . '
'K' c $ ' 'J ' . ' . ' :E M$$. ' ' 2 '
. '1E1 ' 'E M42 ' 2$1 $1 'C ' . ' 1)
,11. ' J ' ' .:E M42 ' J $,$J ' ' # '
' 27 !' ' J1 , $1 ' , ' 4 M42 2 $ ' .
J1M 1 J $1 ' ' . 'J1 ,$ J 7 'P1 ' ' ' ,1 '
' 1 '2 ' . . , . J ' #J $I ' k '4 M42 '
. I ' ' < . M . [!' J [? $ 1 ' . '
'J1 '? 2? ' $1 ' I$12 $6' J1 I '
? 2? '1 < $$ 1 '? 2? ' ,$ ' . ' J ' .
J '? :$2' $M '1 ' ' 1 M ' ? ' 1 1 '
: '? ' 1 'E M42 ' 3 ' '4 M)
42 ' .1 ' ' ' . . J2 'M1 'M 2 7 ' & 7'
' ! ' !" ' M ' . ' JI2$ Q' 0 $ ' . ' .)
E M4 ' M J2M ' A ' . .)E G$6 '
< . ' ' ' . .)4 M42 ' J ' '
$ ' 1 I ' '2 ' ' J 'M1 ' 'D1 '
.)E MF ' I$ 'D1 ' .)E M42 ' I '
' 21 ' M1 '4 M42 ' 1 $ $1 ,1 M 2 ' # <. ' .
M1. $ [1 I ' M 21Q ' ' /" ' ' .$'
? 2? ,1$' 1 ' M1. ' :4 M42 ' I ' 2'
$M 42 ' ' 1 ' $ M $ 'E M42 ' . ' 1 ' Q2
1$' . . ' ' 1M ' ' .2 <,M ' $. Q22
& ' ' ' ' . ' c $ ' ' . : J ' . : .J6
' . ' ,1 J ' P:E M42 ' I$12 ' P ' E M42 '
4, Q. ' . ' :4 $ 42 ' 1$' . I$ ' M 2
' 'M ' E < '2 ' , .2' . $' #M)
4 ' ' 2 . ' ' 0 A ' ' ' *
1 JE ' . 'J ' $M 'U2 ' J M ' #
< . . S 2 ' $M ' '4 M42 'M $ 1 'U. '2)
2$<$ ' . ' $) $' . ' E $21 S 2 '? '
2 $ ' & 'P ' 2 # ' :Q' , $' 1$ '
.:1 < ' ' E M42 'M. .$1J $. ' ' C '
' ' ! 7 . 'C N X ' ,$' . ' E1M ' '
4 M ' . $ 'c ' :1 ' 1,1 .$' E M42 '
$' . 'E M $ 7 9 ' - ' - ,' !N$ ' ' .$
' ' . 21< . ' $ 1 'P-4 M42 '2)
41 ' ' 4 12 M ' ' 1. $? M ' P:E M42 '
1$ 7 6' . M ' . ' Q ' . ' < ' . '
X$ 1 ' $ 2 ' < . ' ' 411 ' . 'E #'
' . # .$I $ $ ' ' : JJ1 . ' !' 1 ' I # c ' . '
4$ ' ' J ' $ 7 . ' 2 $ $ ' ? $2 '
' 1 $' . . I1 ' : ' . . M 2 'P:4 M)
42 ' 1$' ' # M ' . : ' $4 ' $,
M, H&' 0 ' ' ' ' , * ' ' ' 2 ' . ' <21$ '
1 '2 'JE M ' 4$ ' 21 < M ' 'P:4 M42 ' 1$
. 'J$? ' ' X ' J1 2 ' 2 ' . : ' 4$)
1$ 7 G.A X ' @ A0:' , ' " , ' 'T' 0$<' C ')
I. ' A M 2$ ' ,1 J$1 ' ' 2 ' M42 '
P:E M42 ' J1 .$$1 ' . ' < . ' 'M1 1 ' ;)
? $ $,M' . ' 1 '4 M42 ' ,1 P$4 ' . '
1 < 4 '1$$ ' $' 4. ' '? ' $!'
' 'E M 7 J ' . . ' 9' 1 ' . ' 1M (' . ' 1$'
E' I1 ' I$' . J . ' # 2 'E M42 ' M 21$
D P '@(& *' $$$!' ' ' M' . : 1M$ ' J2'
E M42 ' . 1$' $,($ ' . ' $2 !' J ' . ' 1 '
M1. ' . : J $1 ' ' <214 ' 6$? :$2' 4 $
- '# 0' A<6' 8' 2' <9 88 53' 82 J529B' $9' :B*'
J9 +98' G 3/ ; 23' 9 ; G+2' 25' 4' H8 4J2I' = 9.9B'
H<+98' = 930/ \ '32' ; B3' C6 >/A ; 6' F' '4 X 3' 283B2'
H+2' <B43B2I' G9 ; 23280' G25 J5280' \BJ280' 5 ' 7 7 '
G9 ; 3' 8' S 6' 8' :58' 229A' ?9 ' 8253' e 54 *'
8229B / =9 ; G+28' 23' 82BE G328' 23' E293253' "' .G28.95'
<32B20' +' 83 ; 3' 329B8' 23' 42' 82BE +2' . :54 2 :50'
! 0' D &:' " "'@LS 6 8' & $9+' 9A' =9 ; G+28'
< B4:552*0' 9A' 2B8' <:B32' B J929B0' ' ' '9'
"N ' 3' G: ' . :9B J2' 23' 2 ' : B' 9 '425B 8/ B 833 ; 3'
:B2 +2' !' 8:5' G9 ; G+2' :B 8:50' + / $D7 K! _'
?9 ' <B48' 3:R' ; 2' B254' G 8' 23' =9 ; +2/ 5 0' CC'
2 ; 542' "' ! B:3' \ ; 3' = G+2' 'G9 ; +2' : ! '<:9B'
G9 ; G+2' 8 (9' 25' B 5. :R8/ 1# ' " ' ' 'E 0'
, ' B:E25?0' &7 #' ! '3 28< ' 67 A"@'
3 '2 ; 32' 49' \3' &7 '?9 ' E 253' 42' &7 7 *'
32BB2' QE:R' 6
! # 'Q95*G+2* ; 5/0' :42' & 6' SE2.'
428' 8253 ; 2538' 4&G9 ; + 34' ' 8 3' 428' 2:9< B80'
42' JB 548' 4\522 ; 25380' 3' G e 3' G9 ; G+! 253' + '
32BB2' "'3:58' ; : ; 25380' '9 '30' '>2' ; 2' . :5 2'
<:9B' ! 4 ; 2' 25' .2332' ; 84B . :B42' H42' 291'
?9&2+2' '8' 8 52' 2 ; 253' 238 ' =9 ; G+2 ; 253' B42\ *'
. \ ; 4 " G -' 9. \' 4& B3' : ; G 25' 42' : 8' *2+32'
25' .2' + 29' B2 ; 2B. 4' 29' =9 ; G+2 ; 253' 42' 429A

JB 5428 JB4.28 ' 'K - ' ?& 'NN I' E2.'
B28<2.3'23 8:9 ; 88 :5'>2'89<< 2'=9 ; G+2 ; 253' :3B2'
! @283R' & 5.+ 528 G9 G+2 ; 253' :9328 +28 5 3 :58
E: 8 528 + 253 2 B R2280 23 +9 '25E:R 253 428 4 ''
<9348 898 8 'B:932 <:9B +9 '42 ; 5428 G9 ; G+2 ; 253
+ '< A0 'K '" ',C!"' 0 8' 2 5:G+2 '
#9 ; G+2 ; 253 49 ?9 5 B2.G2B.G 'B ++ 5.20 '
@ ' ' 'c5' 32B ; 28 42 . E + 34' >2 '8 +92 3B28*
G9 ; G+2 ; 253' LL '# :42832 ; 253' #2 ' & 'G9 ; K
G+2 ; 253 23 283 ; :B32 :9G+ 42' LL J' 'E :+2332
?9 '82 . .=2 =9 ; G+2 ; 253 8:98 +28 G: 8
'O I' (' 9 ; 2 + E 53 42E 53 #2+R20 ; 9+3
=9 ; +2 ; 253 42E 53 +9' 80 J259 ++ 30 8' '4 83 '
. ! '<' h' 952 B28<954' 'G2B8 H&2A.2+253
=: ; ; 2I'=9 ; G+2 ; 253 G .2+ 9B2 0 , ' # ' N'
'O 'F' '5&:53 .9B2 4&:BJ92+ 258 EB20 9 3 82
92+253 =9 ; G+2 ; 253 BB20 '. ! ' ! MM' LLAE6 8'
3 82BE: 3 3:98@:9B8 +2 <B 5.2 5 42E 53 42 + '3 G+2
49 B:R 23 < B 3:9328 +28 93B28 3 G+28 988' =9 ; K
G+2 ; 253 . : ; ; 2 + <:9E: 30 '+ EB2 0 <' '7C0
4 58 8.9 'LLAE 6 8' ! 8 =9 ; G+2 ; 253 2+2 *
8: 3 8 58 .2882 29A 23 : B 5428 G 2598 + 4228820
(" ' '3 N
'K7 F '23 +2 89 A2 - 3 <B:E25''
&7 -3 28<' &7 " #A 3 3 +0 7 -
! 0 'Q=9* ; G0 9' # ' '42 G9B52B'
5' :29 'B 8 =9 ; 4
! 0 'Q9* ; =*\3 50 \3 5*&/0 ";'
2B ; 2 42 ; G42. 52' $9' 9J ; 2532 + '+ ?9 4 32 4:'
8 5J 23 G9 ; 2.32 5:8 :BJ 528' + ; 2538 =9 ; 2.3 538'
8 528 =9 ; 2.3 5328' LL@' ' ' 28 =9 ; 2.3 538
-' 'O I' 8' :9 ++:58 23 .:9+ 8 =9 ; 2.3 580
' 6' %2
' Q9* ; G*\3 *8 :5P 25 E2B80 42
. 5? 8R++ G28/0 ' ' .3 :5' 4&=9 ; 2.32B' LL 23 42 '
89G83 5.28 =9 ; 2.3 5328' LL 3 34&95'.:B<8 =9 ; 2234
-' '19B' J52 ; 2580 =9 ; 2:3 : :580 ' '
! E 0 6 7N' LLo I'8' 28 J+ 5428 <29E253 82B*
E B _ &=9 ; 2.3 3 :5' 42 + ' ; 54 G9+20 #'9'"
-'#s' B:E25?' &7 ((!3 28< J5' &7 ()'
| -3 49' + 3' &7 (!- '" ' 7 (# '=9*
; 2.32B
?0? 8" ' 'Q9* ; G*\340 \3G2/0 # ' '4&=9K
; 2.32B' 2 28 ; : 88:55 '3:930 23 +' 32BB2 =9 ; 22342
93 6' B2JB23 +2 8 5J 428 52E29A 4&@'B2.=3G420
0& "# ' 0" 28 32BB28 <B: :544 ; 253G9 ; 223G28 49
+0 49 I B2 23 42 + ' 'U7 "#7 '3' S0
<' FF' ' B 3.= ' &95' GB29E J2 ' +:3 50 E 53
3:930 +2 E293 E: B G9 ; 22340 '+7 #'#' LL :<9+ *
B2 ; 253' 5' <29 JB 8' + 283 < 88 G32 ; 253 =9 ; 2234
! _' Q9* ; G*\34/0 W' 'LL]' 254B2 =9*
; 420 ; :9 +2B' &283 H+28 ; :53 J28I' 552 .= +52
4 ' = 938 ?9249.8 .:53 592+8 ?9 0 25' 8&:9EB 53 25
<+98 29B8 254B: 380 + 88253 9A +29E28 2+ :A'GB 8
42 ; 2B &28< .2 4:53 +8 :53 G28: 5' <:9B =9 ; 2.32B
+ '32BB20 '0& * '1& - / - ##5 '" - '
- ! # '/ ! ' ' & E 8+9 3B: 8 :8 42 89 320 230 '+'
?9 3B 4 ; 2 +2.39B20 @025' =9 ; 2.3 825 .:B2 +28 29 +*
+238 42 ?92+?928 + B ; 280 - - 1 7" ' 'K #'50
NC' ' 54.= B' &=9 ; 2.32B + '<: 3B 52' &=9 ; 2.*
32B +2 J:8 2B0 G: B2' LL ' &=9 ; 2.32B0 5'# '2E2*
5 B ; :9 ++4' '32BB2 80283 G 25' =9 ; 22342' 3 ; :5
B2J B4' +:5J0 3B 8320 2BB 530 5E:+:53 B20 28 89 E 3
23 42 <+29B8 8 :8 .= JB 5' 8&=9 ; 02.3 30
B ; 0 50 'LL :<9+ B2 ; 253' &=9 ; 2.32B0 G: B2
-'# 0 E 6 8' +2' ; :9 ++20 @2' G9 ; 23320 @2' G:R*
23 3:93 42 < :9B 42 ; :9B B0 BJ' 0'M' >&25*
32548 G 25' ?9& + R' ' ?92+?92 8 ; <+2 ?9' G9 ; 2.320
?92+?92 9+3B2 ?9' 882 .=20 ' ; 0 N
' B:E25?' 23 28< J5' =9 ; 2.3 B* 3 '
9 ; 233 B2* 49' + 3' G9 ; 2.3 B20 49 B 4 . + =9 ; '
. ! ' "(%' #0/('=9 ; :B QE:R' @
'# # 3+ 'Q9 ; 4*\329B/0 ";' ' $9' G9K
; 2.32' << B2 + =9 ; 2.329B0 << B2 + 2 ; <+?R4 4 58
+' ; 2952B 2 <:9B =9 ; 2.32B +28 G 48 3B:< 82.8' LL@'
' 83258 +2 25' 98 J2 4 58 +28 < <232B 28
! 'Q=9* ; 4/0 W' ' 6 E +2B ?92+?92 .=:82
42 + ?9 48 25' B23 B 53 8:5' = +2 52' #9 ; 2B 95 G:9 +K
+:50 95' :29 ' 8 53 .28 ; :380 8:5 J:8 2B +34B4 #9*
; 3 95 E 5 ?9 0 4& ; GB2 .:+:B40 253 3 25.:B + '
JB <<2 < B 9 ; 42 :53 93 <:9B 5:98 + '+ ?929B 2A*
<B ; 420 'K - '"7 ! -" -' LL#9 ; 2B & B2
+2 E2530 +2 B8 <4543B2B 4 58 +28 <:9 ; :58' B 95
4:9A M4<=RB B4@:9 2 H&=9+3B210 #9 ; 3 B0 B28< *
B +0 43 3 4< 5:9 20 ' 'E5 0 7' LL#9 ; 2B
+2' GB:9 ++ B40 8&R' .+:82B ' LL#9 ; 2B :4:9B 428 ; 2380
+28 + 9B2B E2:' 44+ .28' LL 8< B2B < B +2 52M' #9 ; 2B
952 <B 82 42 3 G .' LL J6 & B <B4. 29A 5& '< 8
829+2 ; 253 5 2234 B 8 + 8&283 988' B4< 549
4 58 +28 <B:E 5.280 23 5:8 4:5M2+28 B 4 .9+28 25' :53
=9 ; 4' +29B G:552 < B30 '0# '#" ' ' & _ ; 2
283 .:532532 23 =9 ; 8 3:93 &25.258 H42 + ' + 332B 2I
25' 2+8* ; 4 ; 20 '0 '(&# ' 0 : + 0 E: +

<:9B3 53 B 43 420 2 ; <2834 H& ; ; :B + 34 42 .2B*
3 528 < 4228 42 3=4 3B210 & B ; +8 5'?92 B 80
.: ; ; 2 952 :429B 4 E 520 253 G9B52B .= ?92 8: B
42 3:938 8 '<: 3B 52 ') " R'
' ' 2 =9 ; 2B0 E' 'c3B4' =9 ; 4 ' 5' :29' B 8 82
=9 ; 8 84 ; 253
-' 'A ; 6 8' 298 H+28 :29 8I B23 53 :a82+ 6'
8:5' :28 H '8:5 82BE .20 <:9B +9 I' B283:M0 ?92 59*
5&25 +288 0 &95 <B48 & 93B2 +28 =9 ; 0 2 ' 7 '
+ 82 ; G+2 + ' + 5J92 + ' B420 3 ; :343 < 32982 ; 253
28J B42 RG2B3 ?9' +2' +23 =9 ; 8 23 G: 30 "' YAMY'
53 :3 ; 5J 4 G:5' G92' 8 98 H\+& +I' ' '49 2B 8
=9 ; 4' ?9' 9' .= 98 0 'JFD' tb A E6 8' &:5
E:98 2B3 25' + ' 328320 3 53:83 B2M .:<42* :98
28328 = ++ 2M0 <:9B G 25' =9 ; 2B <9B42' 5 ' '
("'E ; 0 " ' 5' + ' 5' +29B .:5E 253 B2'9 ; 2B
. 3 42+ HG: B2 +2 G:9 ++:50 25' < 882B < B* 310 ; 'E 0
"7 ' S 6 8' ' &=:5529B 8826** ! * = 8.95 25
" & 5 & ' ' 'LLAE 6 8' :98
+28 =9 ; :58 H+28 <B4@9J48I' E2.' +2 + .3 42 5:83B2
5 88 5.20 '-' M' 29B8 28.+ B8 H428 B ; 2810
B R:58 23 3B2+9 82 ; 2538 5:98 28G+:9R88: 2530 23
=9 ; : 253 + 'E2920 ,1'9' 7' 28 G:9 ++:58
3B:< .= 942 ; 253 =9 ; 48 59 8253 G2 9.:9< 9A
425380 :' G2' '7 "' $9' 52' <29+3 ; 5J2B0
=9 ; 8 G:9 ++ 20 ' '3' 50 <' "F
'e ++:50 " ; '< . 340 ' B*
J 52' 5.:5592' 2M 42 ; 54:' 8' .2 5&283 < 8 952
:5: ; 3:<42' 5' 3:93 . 80 +2 8258 <B ; 3 '4 58
&= 83:B ?92 283 E +2B0 25' B23 B 53 8:5' = +2 520 428
:29 20 49 + 30 49 JB 80 42 + '<:B42' #'R' '4 58 &28< *
J5:+ '9 B2B* ; 8 5 '+2 8258 5'+ ' :B ; 2
'2' E2BG2 B 5? 8 5& R3 ; 3<: 53 4&8/' 52' .:5 255253
5> +c 0 Q9* ; 4*B +0B *+&/0' A' 2B ; 24& *
5 3: ; 2' $9' << B3 253 9 GB 80 :9' '&:8 =9 ; 4*
B98' 28 + J ; 2538 =9 ; 4B 9A' L> 2B ; 2 4&2534 ; :+:*
J 2' 5J+2 =9 ; 4B +0 & 5J+2 2A32B52 42 + 'G 820 428
4+R3B28
-' '19B' & A ++39B2 _ 3 + '4 A 2 ; 2 4 83B K
G93 :5' 42 + 'E2 52 . E2 8.254 5380 58' ?92' &=5*
; 2B +2 :5M 2 ; 20 ' ' ; E
(!'5
3'# ! * 0 'Q9* ; 4* ; *\9*G *3 +0
3 * /0 A'0 2B ; 2 4& 5 +: ; 2' ! 98.+2 =9 ; 4B:*.9*
G 3 +0 +2 ; 98.+2 .:9B3 +4.= 829B 42 & E 53*GB 80
.=2M +2 .=2E +
'K7 #7 '23 (7
! c * c 0 'Q9* ; 4*B:*:*+4*
\B *5 50 5 4*5&/0 A' 2B ; 2 4& 5 3: ; 2' ! 98.+28
=9 ; 4B:B:+4.3 5 2580 2A32B520 532B52 23 <23 30 ; 98K
.+28 .:9B30 ; :R25 23 <23 3 2A325829B8 42 E 53*GB 8
-' (!' '23 ,
! 'Q9* ; 4*B98/0 8' ; ' 2B ; 2 4& 5 3: ; 2
4&:8 49 GB 8 42<9 8 4< 9+2 @98 L & 9' .:942*+@ 2B ; 2
4&253: ; :+:J 2' 2 3B: 8 4 ; 2 B3 .+2 428 < 3328 534*
B 29B28 :9' GB 80 .=2M +28 =2A <:428
-'# ' ! J8' 2+2 283 + '@: 539B2 42 &:8 42
28< 9+20 ?9025 4 3 =9 ; 2B980 E2.' +2 < ++2B:50
'IY
-' (!'3 3' '4< 9+2* 42 ; 4 ; 2 B *
. 52 ?92 +2 '2 .' G<:30 4< 9+2' &28<B 3 43 53 4:9A
4 58)8 '49 + 3 5 '283 5:BJ 5 ?92
3'#+> ! 0 'Q *; 4*88 50 8 5* &/0 A'
2B ; 2 4 4 .3 ?92' $9' 42E 253 =9 ; +42
' 3' " , '42 ; 4 ; 2 B 4 . + ?92
'=9 ; 29B
"' # ! 'Q9 ; 29B/0 ' 0LL+6 :932 28<422 42
+ ?9 42* 598 34 25 .2 8258 ?9' 283 +2 8258 <B:<B20
2A.2<34' 4 58 .2332 <=B 82 49' ; 43 2B 42 + '3 552B 2'
B2 <B254B2 =9 ; 29B 9A <2 9A0 +28 G9 ; 2432B0
5' 42 +29B 4:552B952<B4< B 3 :5' LL 6 5' 95 8258
<+98 B283B2 53' :932 89G83: .2 + ?9 42 5 42 ; *
+ ?9 42 ?9' 82 3B:9E2 4 58 95' .:B<8 :BJ 5 84' B
2A2B. .20 :5' 48 88 <2 +28 =9 ; 29B8 89<2B +9280 # '
'AE5' B: 8 =9 ; 29B8 42 4 4B2532 4258 340 + :*
J428 .= .952 4 58 3 ; 2 . <89+2 3B 58< B25320 < B*
3 J253 534B 29B 49 J+:G2 42 :2 + 25' 3B: 8 < B3 280
'' :53 ; <+'5 3' E0 " 'LL 2B ; 2 4& 5. 2552
; 442. 54' 328' ?9 3B2 =9 ; 29B80 +28 G9 ; 2 B8 :5*
4 ; 253 +28 ?9' 43 253 89<<:8428 2A 832B 4 58 +2
:B<8 =9 ; 5' 234:53 +2 @9832 32 ; <4B B5253 . :583 *
39 3 + '8 534' 28 G9 ; 25B8 43 253 +2 8 5J0 +2
<G+2J ; 2 :9' < 39 320 + 'G +2 23 + 'G +2 5: B2 :9' ; 4*
+ 5.:+ 2 :9' 3B G +20 LL#' 8&283 4 3 <:9B + B ; 28' 28
G2 9A R29A 0 &:53 <+98 + 25' 42 4 E 5' . ; ; 2 +8
8:9+: 253 E: B* 58 3:93 .= BJ48 4&G5 ; 29 0 C !'
0 @ ' ! 28 R29\ 3:9@:9B8 ; :9 ++48 4&952
=9 ; 29B ; 5 ; 29B ' ; 2810 # ?'
'F' 9+J B2 ; 2530 + 82 4 3 428 =9 ; 29B8 E . 428 49
.:B<8' #9 ; 29B .B20 ; + J52' :54B20 4E .52B +28
=9 ; 29B8' 043 3 952 =9 ; 29B ?9 'E:98 3: ; G +3 89B
+ '<: 3B 520 ' NN' +2 52 8 8 8' .233 '3B 32 < 24
H49' .: ; 32 42 ! ++RI +9' JB 3 = 3 ; 29B42 + 'J:9332

?9& + E 3 @ 2+?923: 80 ! 'DE' ; aa' 293*:5
E: B 952 =9 ; 29B 4 B3B29820 23 E: B &=9 ; 29B 8'
4:9.2^9 '+ ' ">?#/ - ' '@9 5' "CNC' LL 28
=9 ; 29B8 B: 4280 +28 4.B:92+28' LL"6 8<:8 3 :5' 49
32 ; <4B B5253 :9' 42 28<B 30 8: 3 5 39B2+20 8: + .. *
42532+2* 8 J5 . 3 :5' 3 B42 42 .2 ?92 + '4 8<:8 K
3 :5' 4:' 32 ; <4B B5253 :9' 42 28<B 3 23 3 33B G942 '
"+ ' ?9 + 34' 428 =9 ; 29B8 ?9' 8:53 4 58 +2 .:B<8' 8
8:5523 283 :B3 G ' P' @&R' 'B2 ; B?94' ?92 .2+9' ?9'
' 3 42E 3 G 25' .:5 '3B2' &=9 ; 29B 42 + '<2B*
8:592 H ! +2 42 ; G:9 ++231' '?9' + .B E 30 <9 8*
?9& R 53 <2B49' :5' ; =30 + 52' +9' 25' 4 3 < 8 95
; :3 42 .:58:+ 3 :50 E:5' + ' 88' >2 8 9B 'G 25'
B G 33B2 952 G9 ; 239' 8' G 9384520 '1 "' 0 N0
>&25' E:94B 8 .:55 3B2 95 42 &=9 ; 29B 4:53 + 28 0
; '@7 ' "7' A - '5 0 "' $9&:5' <29' 42 E:3B2 G9*
; 29B ; 9' 42 E:3B2 E2B39' :9+ J2B 3 +28 ; 9A 42 .2
.:29B G 3390 - 0! ' / 'Y' >2 8 8 Q ; 23+? 283 &=9K
; 29B 23 28<B 3 4&95' =B23 250 B: '3G' ; 0 ' 2 K
J529B0 32+2 283 &=9 ; 29B 42 + '<+9< B3428 2 ; ; 280
5' , 'D # - ' '"' 'R' '<+98 42 42 938 4 58
&=9 ; 29B ?92 4 58 &28<B 30 ' . ' !#'
5' 7 ' 28 :98 23 +28 8:3328 J258 52 E: 253 ?92 < B
+29B =9 ; 29B0 ; ' '56 """' 5' .2B3 5' =: ; ; 2
E 3 3B: 8 +++280 :9328 3B: 8 42 . :53B B2 =9 ; 29B0
+0' ' ' ' ! 8 +2' 448 B 42 E B 23 &=9K
; 29B 5?9 432 &2 ; <:B32B253 25 50 ' 'A0 '
28 G: ; ; 28 25' ; :9B 4&952 =9 ; 29B 8' 8:9 B 532
H2549B 53210 $ & +80E:98 E2BB 253 8 58 <2 52' 253B2
+28 =B 8 42 3B25320 ' "(&' ' ' :98 @: 54B:58
?BG8 5:8 :B.28 <:9B 333 @92B + '49B234' 42 8:5' =9K
; 29B0 B: '+?5 # ' ' 80 2' +6G9 ; 29B 4:53 @2' +28 .:5*
5 80 ' #' ' :98 328 4 58 952 =9 529B 448*
:G+ J2 5320 ; '@ ('C' 'E:98 328 25. :B2 42
&=9 ; 29B 4:53 E:98 3 2M0 8 E' C' $9&:5' 52' 4 82
< 8 ?92' .&43 3 952 .=:82 842 '42E 52B '?9' .:5*
5 88 3' &=9 ; 29B + 2 + '5 3 :50 'K '80' 7'
! Y' 4 B2 *E:980 @& ' ' .:5E2B82B E2.' 952 8329B
?9' 283 4&952 =9 ; 29B 8' B983 ?92 23 8' 589<<:B3 K
G+20 ?9& + ; 2' 93 3:932 ; '< 3 25.2 0 ' - #'
Q '7# 7 ' 'A Q 5a# ' -(' 28 =9 ; 29B8
B:9.=28 8:53 :B3 '.G BJ2 0 ' ' 9B?9: E: 8*
@2' < B ; 'E 98 428 = 528 G M BB280 428 :<<:8 3 :58
4&=9 ; 29B' '=9 ; 29B 23 42 <2B8:552' '<2B8:5523 ; '
K "' #' ! ' '1 - 'C 6 ; !7#' :98 J 88:98 < B
=9 ; 29B 23 5:5' < B B 8:5* .&283 <:9B?9:' ; G *
3 :5' 5' & E B .2 52' 82 .= 5J253 < 8 <:9B E: B .2
?9&2+28 42 ; 54253 < B.2 ?92 &=9 ; 29B 42 ; 29B2
3: @:9B80 85B.28 " & ' ! ' + '32 ; <4B *
; 8538 52 8:53 < 8 +28 ; 4 ; 280 23 B 25' 5&283 <+98 4 *
4B253 ?92 +28 =9 ; 29B8* + R' '428 =9 ; 29B8 4: .28
23 < 8 G+280 23 + R' 25' '42 E :+25328 23 4& ; <43929*
8280) " ' - #7('0 B' 5 (' ' #!(&'<B&!# '
3' 50 <0' "" ' 28 .+ ; 38 :53 8:9E253 +28 4 E2B828
G9 ; 25B80 '?# ' :93 ' =9 ; 29 J 8.:552
25' 95' 9329B J 8.:50 5' ' + '32 ; <80 ?9'
.= 5J2 3:930 .= ; J2' 988' 5:8 =9 ; 29B80 - '
:3B2 43 3 283 42 .=28 3:93 +2 ; :5420 23 E:3B2 =9K
; 29B 42 52 ; 4.:532532B <2B8:5520 '
+ ' 7' 1 #''" ' ' ! ' ' E#+ "N7C' >2++8 89B
:5 E 8 J2 28 2B8 ; ; 3 98 &=9 ; 29B 3B 832 23
8 9E J20 '@# ' ' "' 2 B9 3 42 +29B +:5J92
E2B39 43 3 4& E: B 8' G 25' 44 ; <34 +29B8 =9 ; 29B80
?9& +8 J: 3 +253 8 58 <2 52' +2 4:9A 23 5:G+2 < 38 3
4&4.:532B + 'B 8:50 !: , 'E' B2 4&95' =: ; ; 2
:+ B20 54J +0 ?92B2++29B0 .= JB 50 <: 53 29A0 . *
42B . 29A0 .&28 38:5' =9 ; 29B0 5&283 < 8 2A.982B0 (! '
:5' +2 .B: 30 ' '-s'1' +8 E 253 =9 ; 29B G4*
B +:' 3 ; ' ?920 ' &' H# ' ' &2? B 3 ?9'
52' 5:98 <<B254' < 8 'E 5.B2 5:3B2 =9 ; 29B 42K
E 253 593 20 ! 6 ' :80 @!75 - # '<' FC0 4 58
) 8' :5' =9 ; 29B H49' <B 5.2 4& B 5J2I' 43 3
B: 42 23 84E4B2* 8:5' J45 4 .3 '23 <2B? 530 9 '
+ ! 7 ' + '3: ' + '3 JB2 8& 3B 32 42 3:93* 2 32 ; <80
+: 5' 42 ; : B* 25' 32 ; <4B 53 28 =9 ; 29B8 4B: .280
52 3 ?9& +JB B +2' 2+ 428 'B J20 ' , /# ' 5
33B G92 +28 .: ; G 38 42 J+ 4 329B8 '95' 28<B 3 <:K
+ 3 ?92' '.&43 30 4 3*:50 <:9B 253B2325 B =9 ; 29B
J92BB GB2 < B ; '+28 ; ; 98* ; 8 =9 ; 29B J92B*
B 4B2 23 &=9 ; 29B ; 29B3B 4B2 8:53 3BG8*4 &4B25328 '
=9 ; 29B J92BB 4B2 283 J454B29820 .&283 =:5529B
23 ; :9B 42 + '< 3B 2 ?9' 58< 25308 *<: A0 88'
0 # ' 8D75' 3' E0 <' M0 4 58 -) 8' '3B2
4&G9 ; 29B 43B2 =392+2 ; 253 4 8<:84' '>2 52
8 8 < 8 4&=9 ; 29B ' ; :9B B 42 :583 5.20
C - ' !'Y' ! :5' <4B2 283 4&952 =9 ; 29B '<:58253 B
3 :93* ! 8 + ; 23 <29' 42 <: 48 9A .=:828 ?9& + B4*
8:930 ' ' 5' ' '>2 52 8 8 <: 53 4&G9 ; 29B '
< R2B +28 E :+:58 <:9B 3 B2 4 582B +28 93B280 ; '
1! '@' 28 B3= J 5: 8 B43 G+ 8 5&43 253
<+98 4&=9 ; 29' '2442B0 'K '-B '4 'MANN' B2
25' G9 ; 29B 420 43B2 .392++2 ; 253 4 8<2+ ** 5
=9 ; 29B 42 5:98 B2 :5' 882M ; 9E 8 3:5*

3' # 0@ '5 '/& 3 W89B+2'3=2 3B2'25= ; 29B'4&c* .:93 B0 7!+' ? & '0 ' 5'5&283 < 8 5'=9 ; 29B 4 '82 <B: ; 252B0 8 E' " ' ++ ' 5&283 3:9@:9 8 5' =9 ; 29B 4 '8:9 B B .28 = 9329B80 5' %F"'> ; 8@2' 52' = 8 3 53 5' =9 ; 29B 4 'B B20 6 '"' 5' : 8 ; 8 5' =9 ; 29B 4 '.2532B Q B :5' 82 <+ 3 '.2532B ' .23'?/!9'+9.<9' ' #('2='5' @L#9 ; 29B 4 0 4 8<:8 3 :5' 2'5&283 <: 53 952 =9K ; 29B 4 ' ; 4 B20$:' ; & 3 3 B2.=2B.=2B 22332 * h:5' 4&'.B B20 7 '@ 'M9 '>2 5&32:932B '<+98 .2332 =9 ; 29B 42 .:5' '320 ' 7 ' ! =7 0 ' 3 H@2I' 3B:9E2B ' <:9B '?92+?92 ' 93B28 E25J2 5.280 9 54 G9 ; 29B ; 2 <B254B '42 <95 B 3 53 4&: 25828 '? 'E0 'LL 3B2 25' =9 ; 29B 42 G 25' B80 N3B2 25' G:552 4 8<:8 3 :5' <:9B 3B * E +2B 4& ; '5 3 :50 <:9B .: ; <:82B 82 4 3 428 <: 3280 428 ; 98 . 580 428 <2 53B28' 5' 4 30 4 58 +2 8258 .3 =3B B2' ' & 3B2 < 825' =9 ; 29B' 28 +:.9K 3 :58 E 2 + 88253'LL 3B2 25' =9 ; 29B0 82 4 3 9@:9B* 4&=9 0 89B3:93 < B <+ 8 532B 20 42 J258 ?9+ 82 ; 23* 3253 =' 3 G+2 E2.' 95' JB 54 <<'3 3' :98 N3 :58 3:98 25' =9 ; 29B 42 G 25' B2'Lb%' 2++2 =9 ; 29B0 4 8<:8 3 :5' 42 J 234 23 42 8 3 8 .3 :5' # 2B0 4 58 8 'G2+2 =9 ; 29B0 2++2 253B23 53 +2B :0 'K !#' 0 "' ++2 52' 5:98 '< 8 .:58:+2280 ?9: ?9&2+2 43 4 58 828 G2++28 =9 ; 29B80 8NE' N' >9J2M < B + ' +:5J929B 42 + '+233B2 8 '@2' 89 8 42 G2+2 =9 ; 29B0 ' ' + # ' 4 C' H ! - ' ' ; ' "NC%' >2 52' 89 8 < 8 25' G2++2 =9 ; 29B' +28 B28 42 + 54B28 <B255253 95' ; 9E 8 3:9B0 ' + ' 7' "7 ' " ' ' ! ' "% :=3 "C"" ' ' 82 ; 3 42 + ' <+98 G2+2 =9 ; 29B 49 ; :5420 'H# ' "' 2 .=2E + 2B 8:B3 3 42 G2++2 =9 ; 29B0 '3U' "' 5' E 3 3:9@:9B8 B2 ; B?94' ?92 .2332 G2++2 =9 ; 29B 283 5K .: ; < 3 G+2 E2.' + ' .B9 9340 ' - / - 7 ' " ' ' :552 =9 ; 29B0 G:552 4 8'8 3 :5' 42 &= ; 2 ?9+ 82 ; 5 2832 < B +2 3:50 +28 ; 5 4B280 +2 + 5J J2' >2 52 89 8 < 8 4& 882M G:552 =9 ; 29B <:9B' +B4* <:54B20 84E'F ' :3 ?9& + 3 89 +2 <B254B2 25' G3 ; 52 =9 ; 29B0 ' :B' "'>2 E:94B 8 ?9&:5' + 882 ; G+43 G2 9.:9<' 4&25 538 42 G:552 =9 ; 29B0 Y ' ::88' ' ' ' ! 9E 82 =9 ; 29B0 ; 9E 82 4 8<:8 3 :5' 42 & ; 20 ?9 '82 ; 5 2832 4J +2 ; 253 < B +2 3:50 +28 53 5 4B280 +2 + 5J J2' 52' ; 9E '' =9 ; 29B0 95' <25' 42 @ +:98 20 '#2B' 50 "' ' < 9< B3 8253 253B48 25' ; 9E 82 =9 ; 29B0 #!! ' ' ! 80 4 328*E:980 .2332 8:29B 283 8' : ; GB * J2982 23 <: 53 ++29820 ?92 + ' ; 54B2 .=:82 + ' ; 23 25' ; 9E 82 =9 ; 29B0 '0[583B' Q '7# " ' " ' C 7B' 7#' ' - ' ' 9 54 2++2 283 4 58 8 ' ; 9E 482 = 5529B0 ' ' 28 :G@238 & BB 34B253 23 9 ; 4B ; 3 25' +9' h ++R> .2332 ; 9E 82 =9 ; 29B ?9 '8 24 8 ' ; + 6' 95' 4=2 '230?9 ' 59 3 3:?@:9B8 9A 3' B280 ' + ! 7 ' ' "'LL#9 ; 29B 5: B20 ; '' + =.:3 20 3B 8328820 +:.93 :5' 3 +42 42 .2 ?9&:5' 33B * G9 3 + '3B 832882 ' &=9 ; 29B 5: B2 :9' G +2 5: B20 4 32 988' ; 2+ 5.: 2 : ' 3 54 +20 ?9 '43 3 89<<:842 E: B 8:5'8 4J2 4 58 + 'B 32' ? '< B 95'8 53 ; :3 ' 23 5:5'< B =9 ; 29B 5: B20 #:3 2'2B ; 32 5:9E2 9 0 ' '$9 534 .2332 =9 ; 29B 5: B20 E:98 52 42E2M 233 33254B2 + 'J94B 8:5 0 '+ ' ' ""N' F6 G8:+9 ; 253'#9 ; 29B 82 '3'<:9B ; 9E 82 =9 ; 29B0 4 '8 3 :5' .= JB 520 ; < 3 25.2' 2'?9&:5' <<2 2 =9 ; 29B 283 952 .=:82 3B:<'54J+ J42 I 59 * ' = : ; 280 ' ' ; ' &=9 ; 29B 283 42 3:98 +28 <: 8:58 +2 <+98 ; 2B + 28 B <:58 8:53 2 ; ; 2 48 G93* + ?92 +28 =:554328 J258 8: 253 4 . +28^ ' + '"6#/ - ' "CN ' 2 ?9 ' ; 2 4:552 42 &=9 ; 29B0 .&283 ?9&:5' 52' +28 B2J B42@ ; 8 ?92 49 ; 9E 8 .N340 5 ; 9 0 - ' & +' "' 5'+9' =9 ; 29B J_3 33:930 W3 .2332 =9 ; 29B 43 3 ?92+?92 : 8 =4B 8842 42 B9* 42882 23 42 GB98?92B 20 Q Q '>4 ; 'E'LL E: B 42 B=9 ; 29B0 43B2 ; 4.:53 ; 30 < ?540 25' .:34B4' :3B2 + : ; :5' '42 &=9 ; 29B0 23@2' +2 .B: 8 ; 42:5* 3253 :9' ; + 420 6 '+ ' ' ! # 'TC 44* .2 ; GB2 "CCC' '2' E 3 ?92+?92 : 8 42 &=9 ; 29B 4:53 4 2' = 8 33:9@:9B8 42 + '3B 8328820 ' ' ' # - - 'M90 "' $9 53 '3&$ 88980 + 283 8 58 2 9 = ; 2B 8:B30 ' .2332 : .. 8 :50 42 8 ' ; :44B 3 :5' 5 39B2++20 23 82 B42B 2 .253B2 +28 <:4328 ?9 '4:55253 'B + 8898 952 2 9 + ; < 42 23 G:B4253 8:5' .:9B8 42 8 9+28 3:9 98 '3B E2B8 8:5' =9 ; 29B0 :5' E: 3 ?9& + '25E 2 4& 33 ?928 95' 4288 5' 42 2B:R 0 B ' - '< B3' ' ! :BG+29 '?9+ 5& :B 3 42 &=9* ; 29B 5'<258 53 ?92 ; 4 ; 2 2 ; :58 29B 2B '+2 = 5=29B0 25' ?9&2+2 8: 3 ' 2 ; ; 23 '1+)' ' ' B254B2 42 &=9 ; 29B0 8& BB 32B0 .:5.2E: B 42 + ' ::+4B20 49 ; 4.:532532 ; 253' 9 0 ; '3 532'8:9* E253 <B454 42 &=9 ; 29B <:9B B 250 ' e :' @ + ' ' 0' 'LL B ; 25 .2'>2 +9' 2B ' < 882B 8:5' =9 ; 29B'LL ; + 4B2 ; 253 42 8 ?9 ; 29B 42 4 :J :20 =9 ; 29B 42 Q4 250 3B28* ; E 82 =9 ; 29B' :' 52' <253 +9 '< 332B0 _' 283 .2 5 3 5' 40952 =9*

; 29B 42 4:J92' LLC6 <B .20 G:942B 20 53 8 2' >2' 89 8 5.+ 5' '428 =9 ; 29B8 ?9&2E 32B @2' 52 <9 8 0 7 '@ 'E' >2 89 8 <+98 ; '42' + 'E4* B 32 ?92 42 E:3B2 =9 ; 29B0 ; 'Q3 :'E 0 + ' "' #:5' =9 ; 29B 52' 44<254 J94B2 49 32 ; <8 '@& ' ; 28 GB:9 ++ B48 23 ; :5' G2 9' 32 ; <8 9' 424 58 42 ; : 0 0 0 - ' B3' E0 "C0 44 3' ' 28 3B 8328 =9 ; 29B8 4&952 2 ; 2 JB:5429820 6' @ # ' 0 "' : ' : ; G 25' 42 89<2BG28 =9 ; 29B8 93* + 2889R2B3 ; ' ' "' 9<<:B32B .2B3 528 <23 328 G9* ; 29B8 + .=29828 49 <B: .= 50 ; '0 - / '90 <'"77' 28 =9 ; 29B8 ?9' 4.= <<2530 23 89B +28?92+28 + 283 ; + 84 4&43B2 3:9@:9B8 25' J B42 .253B2 8: * ; 4 ; 20 ! '1 # '0 #"!-' " ' ! - ' 'E2B39 <B9* 42532 23 8:+ 42 3 253 3:9@:9B8 95' ; + 29 @9832 23 4? 3 +2P .&283 &=9 ; 29B 3:932 829+2 ?9' ; 2 +28 2A3B4 ; 3480 "'1 # ' # ' 7 ' ! :53B:58 9 ; :5420 25' ; 233 53 .= ?92 .=:82 '8'<+ .2 4 58 5:8 .3 :580 ?92 + '< 234 5&283 < 8 952 =9 ; 29B :9 952 G+28820 ; 8 + 'B4J+2 42 3:98 +28 42E: B80 "' 3G' :8 =9 ; 29B8 432 ; 2++28 4:53 +8 8:9 B253 3 530 '1 # ' / !? ' 28 =9 ; 29B8 ?9 '5:98 <:884* 42530 +28 54J + 328 ?9' 5:98 253B +52530 "' 1 N 8 '0"=7 ' + 52 E:98 243 < 8 434 <2B ; 8 42 ,E EB2 4&=9 ; 29B0 42 32 ; <4B ; 2530 23 42 52' <B254B2 ?92 .2 ?9 'E:98 <+ 3 <:9B + 'B4J+2 42 .2 ?92 E:98 42E2M B20 "'0#! '# / ' # ' ' :B3 B * 8:55 G+20 '?92+?928 <23 328 =9 ; 29B8 <B48 ?9 '82 < 88 253 '<+29B2B0 +' ' ' 1!- ' E' 28 49B23480 828 =9 ; 29B80 828 . <B .28 2B ; 88 253 + ' :583 5.2 42 8' ; 5J+ +3B28820 "" 'C '# / '1<7)' 5# ' 3' '<' F70 4 58 " 'bb B =9 ; 29B0 < B . <B .20 25' 82 < ?9 53' 5' 82 84< B2 < B =9K ; 29B0 :5' 82 B495 3 < B <:+ 3 ?920 ' B'ME0)' " "'Q' &283 95'=: ; ; 2 4&=9 ; 29B0 .&283 95=: ; ; 2 . <B 429M0 54J +' &95' 8 ' 3 <= +:8:<=20 95 93B2 <+ 8 530 95'3B: 8 4 ; 2 = : ; ; 2 4&=9 ; 29B0 " ! 7+.8' 1!- "' 7#' ' ! Q ' := ' 'LL 5' 95' 8258 .:53B ; B2' &283 95' =: ; ; 2 ?9 '5& '<: 53 4&=9 ; 29B0 ?9 '283 8 58 =9 ; 29B0 .&283 ; '= : ; ; 2 4J +0 ?9 '5&' ' 53 42 . <B .280 4& ; < 3 25.280 42 E :+25.28 5* 33254928'LL ; + 4B2 ; 253' & E: B 5+ =9 ; 29B 5' =:5529B0 5&43B2 < 8 3:9.=4 428 B:538 23 43B2 <B E4 428 8253 ; 2538 42 &=:5529B' 2580 :3320 @& '+9 '4 58 95' + EB2 32+ 4 ?920 <:9B B2 B3552 4 ; 8 +2 ; :5420 '9 3 42 5& E: B 5' =:5529B0 5' =9 ; 29B0)" 'H / 7# ' # ! 7 '8. '"%'LLF' 25K .= 53 '+ '<+ 8 5532B 20 :B J 5 + 34 243 29820 '<29 <B48 + 58 +2 8258 42 & 5J+ 8 =9 ; :9B QE:R' .2 ; :3/0 ?9 '283 4& ++29B8 95' 2 ; <B953 B 3 '+ ' + 5J92 B 5? 82' H# 3 ; :B20 .=2E 53 42 E 532B 828 ; 38 380 E: 3 <<B:2G2B 8 ' ; +3B2882 25' .: ; < * J5 2 42 8:5'3 0 + 3:93 42 89 32 ; +3:9 ; 2 + 28 3 +:58n' + 54:B' + E:98 B23 B2M*E:98^ - '# 3 ; :B2 ' 2 B3 5&283 < 8 E ++ 53 ! 8 + ' '?92+?92 =9 ; 29B ?9 '+2 B254 58:+2530 ' 7 ' #-'9 0 ' 3:5' B 2M2 ; <+20 E:R2M0 9A 3B 38 42 .2 E 8 J2 # ++2 4 ; 28 ; & :53 <B 8 <:9B =: ; ; 2 42 .:9B J20 30 3 343 ?92 @2' < B+20 '5' 42E 52 '42 ; '$92 +2 82M2'> H # 52' 93 ; :5'2552 ; '- ' +4 54B2' 23 =: ; ; 2 ' 42 0=9 ; 29B' - ' :B 82 ' &283 5' E 29M 4: ; 283 ?92 $9 0 .: ; ; 2 E:98 ENR2M0 5&283 < 8 ; 4+ 5.:+?920 '@7 ' "7 ' \ - ' ; 0 "' 2 .2 ?9&2+28 :53 ; 35580 2&283 4:53 <+98 @2' +28 +:92' 9A 8:33280 42 &2? B 3P 9A E 2 ++280 42 &=9 ; 29B0 ' !" ' "Q?)' '0 "' 8 H+28 5J+ 8I' :53 ; '32B ; 2 <:9B 8 ' * +2B .2332 <+ 8 532B 20 .2 EB '2: ; ?920 .2332 J 2340 .2332 9BG 5 340 .28 8 ++ 28 ?9' 4.= <<253 ' 95' =: ; ; 2 8 58 ?9& +0 &25' 4:932P 23 +8 B254253 .2332 442 < B +2 ; :3 =9 ; 29B0 4 ! 7# '829+8 .2332 =9 ; 29B0 7 ! # '23 +8 .B: 253 ?9& +8 :53 829+8 .2332 =9 ; 29B0 ?92 +28 93B28 5 3 :58 5& :53 <: 53 42 32B ; 2 <:93 2A<B ; 2B .2 . B 234B2 4&28<B 3 22<254 53 2&283 95' 5. 25' ; :3 42 5' :3B2 + 5J920 2 ; <+:R4' 25' .2 8258 4 58 <+98 29B8 .: ; 44 28 42 : ; 2 20 9 W' \ )' - / # ' + # '"' 0 & '8 5 ' ' EB +"CN ' ##9 ; 29B 'E 2 + '25 .2 8258 .2<25 + 53 +2 E: 8 * '2'49 ; :3 5J+ 8 &7 !7# +9 ' 'B24:554 _E2:B 23 44@' 42B:3 *E 3B2.: ; ; 2924 'Q&2 ; <+:R2B' :932 + '80 '4 49 .:5 288 :55 + E:9+ 3 43B2 ; 29A 4288 * 542 .2+ '42 ; 54 3 <+98 4&=9 ; 29B0 <+98 42 :B.20 '@ A!# ' 4 58 7# ' . # ' 0 <0 " ' 'J 2340 2=2M ' 42 = 32 9GB 540 5& 'B 25' 42 5 39B + 23 42 4:9AP .&283 952 8:B32 4&=9 ; 29B :9 42 ; ; 3 8 2 ?9 82 @:92 89B 95' :54 3B 8320 ! 9 ' 1 7 ' "F' ; B8 "F% 'LL 2++2 =9 ; 29B 8&283 4 3 25' 2 '8258' & E 42 25' G2++2 =9 ; 29B 42 4& 88:9. ' " B =9 ; 29B0 8&283 4 3 <:9B' < B 58< B 3 :5' :B 8 J 5 +2' 5' 9329B0 54 2A 838 ' 4 : 3 ' 4E 32B E253 < B =9 ; 29B0 ?92 +2 .3293 B93 < B+X ' .: ; ; '95' 4.92 + 42 E:9+: B B 32B .29A ?9 '42B * E253 < B =9 ; 29B0 ?92 +2 .3293 B93 < B+X ' ')?>&' Y' 29A ?9 '4.B E253 < B =9 ; 29B 8:53 89@238 'B23:9.=2B +29B8 :9EB J28P .: ; ; 2 4 2' 5&283 < 8

3:9@:9B8 A2 23 ?9&2 +2 E B 2 25' 29A 82+:5' +28 :.. K 8 :580 +8 82 B2 B: 4 88253 G 25343 <:9B +28 2A<B28K 8 :58 23 +28 32B ; 28 ?9& 8 :53 &"' <+98 ; 480 ' - ' ! ' 5' + 3 4 58 R5 + ' ' ! ' 33 ?9 33 ' 8 ' <+ .2 < B =9 ; 29B0 + 283 G+ ; G+2 42 52' & E: B < 8 43:9+ 4 ' :9' ; +3B 8420 ' K ' & 'A0 M' R5 + ' ' <4.=4 .:53B2 + 'B4J+2 ?9 'E253 ?9&95' 5: ; ' <B 8 54432B ; 54 ; 2530 8 58 B3 .+20 58 8: 3 < 8 B2<B4825+4 89G84?92 ; ; 253 < B 95' <B2* 5: ; ' ' 93 4E 32B .2332 3:9B59B20 ?9' ?92+?92K : 8 23 '+ 'B J929B <293 8& 4 ; 233B20 ?9 54 +2 8258 283 .+ B0 ; 8 ?9' .' 283 ; 9E 820 89B3:93 ' . 982 42 (' 93B2 89=83 53 ' 4 ; 5 5' 9?92 + :5' .B: 3 4& G:B4 ?92 +2 <B:5: ; ' 4 ; 5 5' 82 B <<:B32 - ' (' '44 "' " ' 28 489M ; :380 25' 3 53 ?92 8R5:5R ; 280 448 J5253 95' 8253 ; 253 E '23 < 88 J2B 4:53 5:98 8: ; ; 28 223480 8 58 ?92 + ' . 982 8: 3 4J +2 'B2 23' + R' '.2332 4 4B25.2 ?92 +2 . <B .2 5& ; <+ ?92 < 8 542288 B2 ; 253 ?92+?92 .=:82 42 44<+ 8 530 3X4 8 ?92 + ' 44<+ 8 5.2 283 5=2B2532 ' &=9 ; 29B - ' 'A 56 8 ' 983 H+28 BGB28I' 42+ .= ; < 82B:53 =:9+4 4&=9 ; :B0 O 7 # ' ' " " ' &952 5 K 39B2 283 42 .: ; <+2A :5'8 5J9 520 & 93B2 42 ; 2+ 5K .: 2 :9 42 +2 ; ; 2 :9 42 .:+2B20 82+:5.' .2 ?92 +28 =9 ; :B8 = G:54253 <+980 ' ' , # ! # '<' "' N' '84 ; 2B2 H82 ; 29BI' ' << B + 4 93B2 82 ; 25.=2 '\& * 82 ; 0 ! 8 42829B <2BB2 +2 H+ I' @23 P $9 53 8 'B * .= 52' 493 .:5?92BB2' ' +:B ++' =9 ; 29B8 23 32BB20 ' ' # 0 D '@' ! '<' "'/LS 6 8' = 5* 3B2 42 3 +42 23 G E29B #&283 5@9B2 :'5 B2P ! 8 .= 8.95' '8:5' =9 ; 29BP >2 5&R' 8 9B:R ?92 B20 'S' 9+32 4&=9 ; 29B 5:8 .=:9M 8:53 ; :B38 5' 5:8 @ B4 58 < 8 82=8G2B28820 ' '*EAE 6 8' $9 54 :5' <9BJ2 49 .:B8 G9 ; 5' ?92+?92 =9 ; 29B 59R8 530 E 53 8 '.:5.:.3 :50 '0 - '5 0 "'' 5' R' B23B:9E2B ' 9.958 3B 38 42 ; 28 .:54 3 :58 23 =9 ; 29B80 ? '?7' '<'"' B ; '828 =9 ; 29B8 + E: 3 .4332 2R 0 < 0 "N0 >2 E2:R +:9B B .2332 =9K ; 29B H 53 8 2I0 5' 0 "C' ! + .2 2552 ; 2 "!' ; 25' =9 ; 29B0 ; '0 "'.2' 2 3 952 =9 ; 29B <B: ; <32 23 .9B 2982 ?9' ; 2 .:5E ' '32+ 2 23 28+: =J54 42 ; ' 5 39B20 '30 F2' :J2528 28 : 30 ' ; :5' =9 ; 29B0 @9J2 <+98 <: J5 53 ?92 ; :50 5U' 0 C7' ; 28 +28 2EB28 <93B 428 8:53 3 +28 4&=9 ; 25B8 <93B2 48 23 .:BB: ; <98 9 .:B<8 =9 ; 50 ' - ! ' ' ' $92+8 8:53 +28 =9 ; 29B80 32++28 8:53 +2 '52 5 3 :58 428 ; :29B80 5U' ' &=9 ; 29B <24 530 ' ' " ' 233:R 53 + 'E ++2 428 <+98 824 3 89A 23 <+98 ; 93 580 52' <+98 52' ; : 58 ?92 4&952 89<2B +9 34 42' ; 9* E 8 =9 ; 29B8 ?9' 2 98: 253 .2832 594 4 20 ' 1!#'"C' 5' 428.:9EB 3 952 8:9B.2 4&=< ; 29B J3 882 23 G9 +29820 8 '? B '7N ' 6 ' . B40 C 7# ' =9 ; 29B0 8:9 B 5.2 <=R8 ?92P0X #:50 "# 3 2BBR0 = ; 23 BP G:9BJ' 23QW 25P' <B:E25P0 &7 !# ' 7 !# ' !#3' 28< J5' &7 !#3 3 + '7 !# 3 49 + 3 '&7 !# '+ ?9 420 =9K ; 29BP : ; <' # ' =9 ; 29B0 A=L930 9 8 :5 P 89' 2:53B ; B20 9B3 98 +2 B 33 .=2 '=R< .089<<:8 53 95' B 4 . + 7 / 'Q88 ; 8.B 3 7 ! & ' BB:82B/P' &7 !# 82*T B 3 < : X' & /) # ' 9 AE 6 8 =420 ! ' 288 R 0 < B + 3 5 8 ; 2 23 .253B2 & 5 + '2 B 5@ 820424 ; 523 '&7 7# +2 J25B2 ; 8.9 + 5 $'Y' % > '06%%@+ "!'E' ' ' "6%- , ! - '6 ! + "' \ &, ' "0 6 ! + " ! ("('#"' 7-/ UN' & ? ' ' " ' ! @ + " ! (" (' (" #-%' #"' 2"'% + 0"(' 4-"-'"('H ' ("'$'-/ ! "/% #0/('&"(("''"('6 ! + -#"(- '# 'S 6 F' 5'=9 ; 29B 42 =3:2M H : :923I' 23 +2.= ; B <B :+3 8 4 2A 23 8:9= 4: 3 ?92 + 2983 + ' J: J2 <+98 +:5J92 ?92 +2 :+ 4&952 J ; 20 3='2"0 S 6 8' 2 39 42E 258 <:EB2 42 .: <8 2+ 42 G 258 23 39' 8 2834 =: ; ; 2 42 .:9B30 2= .95' 4 B ' "6% +2 ; 25J29B 42 8:9<2 "% +2 =9 ; 29B 48 GB:9238 42 .:9B30 !75 - '6" 0 4 58 . 5 ? ' ' , '# # *('0= * ; 2*E 5/0 8' W3' 2+9' ?9' 2BB2 42 3:98 . 348 23 283 2A<:8 ' 9A 532 ; < B 28 428 8 8:58' >& ++ 8 2889R 53 +2 < E '42 : ; 20 42* E259 E J G:54 23 =9 ; 2*E25' 38' '4 58 +2 K '"' ' ' "$$' - ' (!'D7#- #'.253 # 'Q9* ; *4&/0 @'LL 6'$9 '3 25' + '5 * 3 ; 2 42 &2 9 Q8258 9?92 + 82 4 3 89B3293 4 58+2 83R+2 +2E '23 <: 3 < 2/' 28 =9 ; 428 .:533 28 42 B0 '@'H - ';7 ' ' ! 8 E:98 HB:82 9I' 5 882M+2 <+98 8:9E253 9B +28 =9 ; 428 G:B48 428 5? ; 5 ; 28 49 E2530 3 ' ' 0 '$' LI2 = 5I'E: 3 = B 'JB 548 < 8 828 5 428 .B 53 E28 $9 '3:5328 2.:9B 53 E2B8 +2 ; '=9 ; 42 B: 00 ' < ' ' 2<2 4 53 89B +2 4:8 42 + ' <+ 52 + ?9 42 & + E2 'JB:8 G:9 2 ; 8 952 ; :53 J ; ' =5 ; 420 '0& "# 'E0 W'LL &=9 ; 42 + ; 2530 & 9 @0 28 =9 ; 428 <+ 5280 &=9 ; 42 82 5 42 &:5420 &=9 ; 4

[illegible]

[illegible]

[illegible]

[illegible]

5 : ; 0 4 58 /28 255B:58 2B2 :93 5.280 42 + ' . B:332 8 9E J2
- ' ' ++6 8' 5M 2+ .= 2 ' 42 &28<42 JB 53 . :+< +'H3 =: ; 8I B 3 4952B0 ' ?92 42 + ' .95 52 +2 .9<2+ 25<:B3 0 '+ 'G9B2 3 G 3' 2 JB 5 ; 253 253 ; 0 ,&' +2 ; B3 032:'LLM9 68 +8&28+ 882&<B253/2 ; 9 4 H+2 4 G+2@0 B ; '+ '=9B2 ; :53 & '<B 80 0 # !-! ' ' 6 3820 4 58 ' 3+ 'E+ 58 .B:+2+ =9B20 3 82 :B.2520 23 8:B 8 58 @9B2 9& + &:..B ' 8 58 59+ B28< 30 ' .! ' "NNFC0 ! 28 ; :9+3 ' GB 3 23 82 42 ; 2532 ' .= =9 5' :' 8 ' JB 53 =9B20 ' ' O I' 8' B: 5 23 .G2E29A .: ;' =9B2 42 8 5J+ 2B0 ' ! 0 0! ' ' 6 ' 2?92+ 2 ; B3 8: 3+ ' =9B2 H8 J52 42 ; :?92B 2I 9' 4 3 5?9 93 < B ; 5 2B2 42 42B 8 :50 55 '' =9B ' ' =9B2' 42 8 5J+ 2B 5:3 G+2 253 9' ; + 29'42 + ' 3 G+20 . ' " ' #(' ' <' F " ' 9' . << 3 52 >2= 5 :90 >2 4:552 8 A =9B28 42 + :90 'H"' 'LLAE 6 8' ' &283 ?92 39 32 J B428 42 BR ; 2B +28 ; :38 ; 5 * 2832 ; 253 + :5J8 E2.' +28 GB2 8 988' ; 5 2832 ; 253 GB2 80 . : ; ; 2 95'< 882 23 3B .20 95 ; 83B2 23 ; 23* 3B20 952 .=2E2+9B2 23 =9B20 95'G 83 23 G 30 23 58' 428 93B280 558 0 0 8:0 # (! ' :93 B25E2B84 4 58 + ' . E2 ; 2 :G8.9B20 9?92+ H 2BG=B2I E:R 53 @ '=2B 882B + ' =9B2 2 JB:8 82B<258 0 5' BE0 N"0 5 # ! ' 5' + ' ; 28 ; 2 29 ++2 :93 ; 8 988' + ' J9B2 42 + ' 4 E 52 5 5320 .:9B:554225B:R5242 B 5.20 . : ; ; 2 E:980 E:98 B2J B4 53 G9M2 4 =9M2 6 ' 9* 3B20 @ ' F - '< ' " "0 44' 'Q+28 B 8 258 4 58 +2 O I' 8 2.+2 <B:5:5? 253 428 B' <:9B 428 # P &7 ' <:9B &7# 9' #29B2 H=9B2I0 9 ' < ' "20 ?9 ' +2 <B:5:5.2 . : ; ; 2 =29B20 &! # ' 8 9' & 8< B 3 :5' 42 &=
- 'c (# ' B J 52 5.:5592' 2 ; :3 ' 8 J5 4 +2 <:+ + ?9 ' .:9EB2 + '34320 . : ; ; 2 :5' +2 E:+3 < B 2A2 ; * < 2 42 ,&! ' # #' 23 988' 3432 4&=: ; ; 2 :9 3432 42 G432' 2M 288 R2?92+?928 .:5@2.39B280 ; 8 2>28 8:53 8' <29 <<9R4280 ?9& + 283 593 +2 42 +28 B <<:B32B . ' 'R 3 & 5.25 4@2.3 '&7# ' ?9' 8 ' 3 =4B 884' #9B428 :53 +28 328328 23 G BG28 23 JB25:580 '.! - ' I0? - "# ' < ' C0 E' " ' 2 ; :3 42 &7# ' 43 3 25.:B2 98 32 4 58 +2 BE56 8 4.+2 3 53 <B:.=2 42 + ' <:B32 &95 E 29A =9B4 '< R8 530 @2' +9R R 4 3 42 + ' 8:B32 ' 3 :5 E254 5J2 24 58' >< '" ' & !- ' '<+98 G2+ 2804 58 B2 ' % ' ?# / !
3' #+ ' Q=9*B2*G4\/0 8 ' ' 5.25 5 : ;' 42 + ' .=25 +2 42 + 'E J52
'Q=5B*=4/0 :R' 6 6 ' '< B3 2 GB9* 3 +2 +:B8 E293 <B254B2 2 ; < B2 28898 + ' 8258 3 E20 23 :5 3 ?92 &95 3 B2 '4 0 & 93B2 '=9B= 930 ! ' ' ' E0 "
- ' #' 28 <B424425328 44 3 :58 49' 23 42 & . 44 ; 2 4.B E 253 &7#& 7' Q E2.' 95 Q/0 23 :5 <:9BB 3 B2 :G82BE2B ?92 + ' 5 +2 & 7' 42 .2 32B ; 2 ; B?9 3 + '4B: 32 Q<9 8?9&:5 +2 4 3 <:9B ?92 +2 .=2E + ++2 4 4B: 32/0 . : ; ; 2 & 4@2.3 ' ! ' 5* 4 ?9 3 + ' J 9.=2 4 58 +2 32B ; 2 42 ; B 52) ! #" '
- ' # 'O I' 8' 5' .= B3 2B 8 58 :3323 ?9 '52 4 23 42 '52 =9B2= 930 ' " ' 9 'Q 9W' <' B 0 4 58
'# 'Q=9B*+ *4&/0 8' ' B 54.B '>2 ; 2 82B 8 .:532534 42 4:552B 428 84B45 428 4 3B: 8 :9' ?9 3B ' <2B8:55280 B2 . 5? :9 8 A =9B+ 4280 23 <9 8 < 8K 82B0 E: '+ ' F
- ' ?' K7# #'
'# 0 '3=9B*+ 50 + 5* /0 ";' 39 =9B+ 0 2 42B5 2B H E 8 49' < B+2 ; 253 4& ++2B 9A 9 +2 28 4 < 24I' <B2E +930 4 58 28<: B 4&4 ; :9* E: B +2 <29<+2 23 4& BB E2B 9A 9 +2B 28 E2.' 952 :9+2 =9B+ 5320 ! ' E; 0
G MP $% 'OE n$ $. 7$ #' '.'E 2 ' $' 'E 2 ' '2 ' . ' .JE I 2.'P $ [2' Q2 ' . 'M$ J2 ' ' 14 J $.' . '1 J2 ' '2' $.'M 'E 2. $ 'C - / '4'=7 =7 ' !
BB =9B*+2* ; 5/0 8' 'LL 0 2 .B' <B:+:5J4 ?92 3+2 +:9< 23 ?92 +2 .= 25 3 ?92+* ?92 : 8 988' 28 4:J928 J4 ; 88 5380 25 =9B+2* ; 2:38 954GB280 <<4+253* +8 +29B ; +3B2 2BB 53 4 58 +28 325=GB28^ 5 : . 80 (#' +0 'LL 6 B 2AK 3258 :5' 2 =9B+2 ; 253 42 :9B8' ' E: A H42 &G: * M 50 8:B32 4&: 82 9I 283 3B48* :B32P 23 .&283 ; :3 58 95 .B' ?9&95 =9B+2 ; 253 ' :5' 4 3 ?9& + <B:5:5.2 8:5 5 : ; 0 << B2 ; ; 253 4&95 3:5 +9J9GB2 23 2 B R 530 ' 8 3' + 0< ' "C ' B 5 +:J 2' B' :B323 <B:+:5J4' ++2M 4:52 42 .2 < '< B 42 8 538 = +B+2* ; 2538 :98* ; 4 ; 28 <<2+2B +28 . = 5: 528 4 :B0 ; 5380 '> 93B' E'LL B 8 42 4:9+29B0 42 .:+4B2' :9882M 428 .B 8 23 428 =9B+2 ; 25380 < B.2 ?92 +2 @:9B 49' 2 J529B 283 <B:.=20 ' G+20 $ A66' 'N' 23 25+ 538 42 4E' + '3B:9<2 .:5832B542 5

< :988 ' E2B8 +2 . 2+ 428 =9B+2 ; 2538 '9A0 ' ? & ' ' $92+?92 : 8 2+2 c 83 B34I' 82 ; G+ 3 82 B ; ; 2BP ; 8 225&43 3 ?92 < :9B < :9882B428 =9BK +2 ; 25380 ' , '
- ' 'A56 8' ! :BM 283 + ' 49A0 2 32 5M 2 < +2 2+ 8 5J ?9 ' 42+ .:B8 + ' 42E +2P 4 GB 80 :4 .B 80 ! ' 98+2 ; 25M &25 953 <:B34 '828 J25M0) '50 " "N%' o I' 8' 53 3 49B+2 .= <<+R8 <2 .: ; G 3I0 ?9&:5 :R: 3 < B 42=:B8 28 =9B+2 ; 58 23 .B 8 428 ; 82B G+28 .:B<80 @' ' ' "NC 3 428 8: ; * ; 238 ; 532 5R ; <=:' 283:5542 B =9++2 ; 258 ' .= 534 =R ; 25420 ' '%%' # (! ' ' 5&25* 3254R ?92 +28 E: A 3B48 =R4298280 3 =9B+2 ; 258 42 G28328 4 5J2B298280 ' 2
' >[9B+2BP 2 BR0 : 2 ; 253P <B:E25?' , 5 '4 3 988' ' , ' ?
'Q=9B*+4/0 E' 'QL 6 :9882B 428 =9B+2K ; 25380 25 < B+ 53 49+:9< '49 .= 25 ' 8 H+28.= 258 ; 9+.38I' =9B+ 253 <= 8 :B3 23 <+98 8:9E253 9A <* <B:.=28 42 + <+9 2 23 4 58 +28 32 ; <8 =9 ; 4280 ?92 4 58 +28 G2 9A 32 ; <8P +28 +:9<8 4 58 +28 G: 8 :53 .2 ; 4 ; 2 583 5.30 23 :5' +28 253254 =9B+2B 4 58 +28 ; 9E 8 32 ; <8 23 E 53 +28 :B J280 ' J, , " ' 3' A50 < ' MM' ' ; ' 5 + :J 2' '82 4 3 428 .B 8 * J98 23 <B:+:5J48 ?92 :5 <:9882 4 58 + ' .:+GB20 4 58 + ' 4:9+29B0 23.' 88:58 =9B+2B + *G 8 3:98 .28 4 ; 548 53 ?9280 '# 'A5' ='3 ?92+ :=@23 25* 5' '<B482532B 9A R29A $92 +2 4 G+2 3:9@:9B8=9B* + 53 .:53B2 +28 . 29A 5'& '< ; >2E: 8 =9B+2B 25 E 5' + ' .= . 52 2552 ; 20 5' 7 #'E ' ' '<B:9E4 ?9&:5 <:9E 3 43B2 3B J ?92 8 58 =9B+2B0 " ' 3' +90 < ' "7 '% 4 58 7 ' 28 3B: 8 8:29B8 ?9 0 4& 4 5 B 5 ; 53 +28 8:+4 380 :9B 2530 E:+ 2530 << 2530 =9B+ 253 4 58 +28 . : ; G 380 55. 80 F (&) 0 ' ' =3 9 ; 5 83GB2 28 J258 ?9 ' < B+253 3:9@:9B80 3 =9B+253 <:9B = B2 3 B2 29S ?9 ' :53 42 G:58 4 8.:9B80 ' 9 ' VB9 ' ' B<2B8:5= . 3 :50 #9B 2M0 8 < 580 < ; E2 ?92 +28 244B288:533: ; G480 '1 'U 7' ' &4.+ B .B: 82 24 B0 B ; 9J 30 +2 . 2+ '32 ; <432 25 =9B+ 53 .B2 82 23 8:9+GE2 :5420 55* . 80 C * '5 0 " '@L < ' 9 '<2 <9G+ .I0 ?9 '4 A 58 <B:8.B E 3 3=4 20 $9 0 <B:32.329B 4&952 82G52 E * + 20 B << 53 428 ; 580 G 3 ' 3:B3 ' 3B E B8 9' ; 9E 8 8258 ?9 '=9B+2 25 ; 9E 8 E2B80 + " ' * ' N" ' ' J' # B+2B0 82 4 3 42 .=:828 ?9&:5' . . :9<+2 ; +' '+29B 5. : ; < 3 = + 34' 28 ; :38 ?9 ' =9B+253 42 82 R: B ..:9<+48' LLF6 J' B 2B E2.' 2 ; <:B* 32 ; 2530 E2.' +2 3:5 42 + ' B29B 52 3?9BG2 * 5 3 ?92 =9B+ 3 . :=3B2 +9 ' 8* =: ' 4:520 + 88 53 + ' .2332 ; :++2 =9B+2B 00 '# 'B ' '+28@489 328 .B GB253 ; < 43 0 +28 @ 58 5 8328 =9B+GB253P + ' 3B:9E ' 95 .:5E9+8 :55 B2 52 ; ; 4 GB = ;' = 4* ; 2 A0 ?9 '<B 8253 ' '428 ; J 83B +8 952 ..98 3 :5 25 :B ; 2 53 39+ 2 0 6, ' '$> ' *4 6? ' + ' \ ' ' = ' ' # ' ' " * ']660 = 'F 'LL"6 , ' B:5:5.2B E2.' 95 3:5 4&2 ; <:B32 ; 253 :9 42 .:+ B2 ?9&:5 88 ; 0 +2 9' =9B* +2 ; 25 ' # ; 2 42 :?92+ 9B2 4 8 + ' <:B32 82 ; 23 ' =9B+2B +28 B2<B:2=G8 +28 <+98 ; 2B80 : ' "770 %7' 95'288 ; ' BG ; 88 53 '#9B+2 8:5 .= 53 A3B* G B2 9A ; :538 =R<2BG:B 280 'A ' 28 <B43B28 42 +93:5 ' #9B+253 25 .= 538 42 ; :B3 +29B8 5GGB28 . 53 ?9280 7 '9 'L9, ' , ' 6 '0 'H 2 <29<+2I' '8&25 X2 42 E 5' 4 58 :B 428 8 538 . + .:80 #9B+2 25 4 B 8 :5 +28 .= 538 428 8 .B .280 6 '50 C ' B:* E2BG2' '_333 =9B+2B E2.' +28 + :9<80 2&283* *4 B2 + 93 8& . . : ; ; :42B 9A ; 5 GB280 9' :< 5 :58 428 J258 E2.' ?9' :5 3' :9B?9:' +2 E:R2I*E:98 ' - ' $9 '4:52 E: B^ + 93 G 25 =9B+2B E2.' +28 + :9<80 ' ' 0C , ' E0 ' ' 93 =9B+2B E2.' +28 + :9<80 4& 93 P28 4 8253 GB B2 E2.' +28 5?80 5 ' .: '= '50 ' ' 5 4 3 42 ; ; 2 ' <<B254B2 ' =9B+2B E2.' +28 + :9<80 5 B < B 8& . . :939 ; 2B 9A ; :89B8 42 .29A E2.' ?9 ' :5 E 3 :98 .28 :B* ; =48 :9+ 253 82 4 E2B3 B 42 5:98 ' 5 <<B254 '=9B+2B0 4 3 & 93B20 E2.+28 + :9<80 '0 '0 " ' : ; 2 :5 <<B254 '=9B+2B E2.' +28 + :9<80 ; + ' ' + '32BB G@2 E 2 ?92 .28 G 54 38 ; 2? 2530 @2 52 + 8* 8 '< 8 42 ; & . . :939 ; 2B 'E EB2 E2.' 25A0 2 ,7 ' ?& ' 7
' ?' ! 2* + + "/2" + "/% #! ' 8. / I' (-; 2&" ' * /' #-(0-% (* ! ." /% & 7# #5' ' (" &" .0 6" ! '&0 /% 2* + + " ! /'6* + + " $! '-" ! : ' '< ' * ' ' "
- ' 'O I' 8' 28 +:98 H2++2I' " ' 9++2B0 23 + ' =9 58 =9 0 . # ' AAE' 'G 25 <23 3 ?9& + 52 82 < 8 ; 2P' 5 '9 2 23 5B 3 . : ; 2 42E2M0 25 ' "7 ' 25 98+253 23 GB 2 "' JB 58 ' 3' + 'G:54 20 1&' (, ?- ' ; 0 "F" ' S 6 F 5' _333 =29B+2B E2.' +28 +29A0 ' - 8?' 0 ' ' <'NNN' #A56 ' 9+8 :B 253 23 9++253 . : ; ; 2 4 G+280 '0 - ' ; 0 " ' :R #2* . 3 ' < B +28 . 53:58 =9 20 $9 54 428898 5:98 +

59 .3 283 42E ++ 20 'B 0 "0 # (! ' 8 =93* +253 . : ; ; 2 .= 258 +29B8 G BG B28 .= 58:580 5 'E 0 FN0 W2B8: ' 5 +28 =9 +: 3 23 ; 9+4 88: 3 H+28 J+ 4 * 329B '08 ' :5 +28 E:R: 3 283B E2B 'B2.2E: B + ' ; :B30 #$ ' ; 0 "$" ' 28 + :9<8 89 E 53 + ' 3B .2 =9B+253 N5 ' : ; GB2 < B +28 G: 80 ' "" ' 2++2 ; 253+ '4:9K +29B + ' 2B930 $92 < B +28 .= ; <8 =9B+ 532 2+2 . :9* B930 'N N
' ' . B40 & 7 #3' X ++:50 &! "A#3' 5:B ; &" #'& 7 #' ' . - ; ' #'&J #' :3 2BP <B:E25?' 7 7 #'7A7 #' 94:+:BP . 3 + ' 7" ! #3' 28< J5' 23 <:B39J ' 7 7 #3' '7C # '7 ! # '7# #3 49 + 3 5' 7 7 # 3' . : ; < B28 .B 2B0 58.B 3 B"7C '=9B+2 ; 2530 7 ?6 '= G:9P 'B 4 . + 283 7 ' :5 : ; 30 U ? 20 B24:9G+ ' <:9B 325 :B.2B :5 : ; * 3:< 2 ' ' :B ; 2 5. 2552 23 .:BB2.38 283 7 #' :90 E2.' <B:83=G82 4&952 & '&7A #P B 4 58 &7# #' 283 952 . : ; <3 :5' ' 0 20 *
3 ' # 'Q=9B*+2*B 2/0 W' ' B 8 : ; < B 8 ' 428 =9B+2 ; 2538
'6 ' B ' 2 ; <+ B B 42 828 .B 25280 2 828 GB9R 5328 =9B+2B+28 ' ' " ' , 67# 7 ' "NF0 4 58 .
3 ' 0 'Q=9B*+29B0 +2 *M&/0 W' ; '23 ' 6 2+9 0 .2++8 ?9 ' =9B+20 ?9 ' <:9882 42a .B 8 42 .:+GB20 420< 88 :50 23.'0>2 <B .= 8 3:9@:9B8 ; 28 =9B+29B80 ?9 ' .B 2?3' ! :B3 9A > .:G 580 ' ' .:55' + * ' 0 NF' ' 6 2B ; 2 42 M: :+:J 2' 2 4 3 4&95 5 ; + 4:53 +2 2B@ B2882 ; G+2 ' ; ' =9B+2 ; 253' +8 H+28 :9 B 528I 52 8:53 < 8 B: .28' ; 8 +8 . 9* 253 42 4<:9E 532 < B +29B8 .B 8 B 32B 8 23 <B28?92 :53 592+80 ?9&:5 253254 42 :B3 +: 5 23 ?9 ' +29B :53 3 4:552B +2 5 : ; ' 42 =9B+2 B80 ' J, , " ' 3' A50 < ' " '> #9B+29B :938:50 =9B\ 9B 5: B0 23.' \ ' ; R. 3G8 5: B0 \ ' ; R. 3 8 2 B R 0 23.' 8 5J28 42 ; B ?92
'K7# #
' =9B*= *GGB*+9/0 ' ' 2+9 ' ?9' 283 5.:58 4 B 0 GB98?920 3:5B4 ' &283 95 =9B+9* G2B+9 ' '5' 82 4 3V 988' 428 2 ; 28 ' ! 42 ; : 82++2 H +\' 49 BGB2 42 :9 8 I0 JB 54 =9B+9G2B+90 ?9 '82 3B:9E 3 < B3 93 E2.' 8:5 ; J 5 3 :5P .B* ' 5: ' 23 +9 ' 42 ; 54 ' ?92+?928 B2+ J 29A0 3 " ' . - " ' '' 4 3' B 80 "F" "0 < ' "NC
- ' ! ' ' ! ; 2 42 E J5 ' ' 4 3 =9B+9=B2+90 23 X<+ ?9 ' .2 ; :3 '952 8:B32 42 .: B2 42 2 ; ; 2' +2' 283 .: + 2 =9 4:GB2+9P .2332 .: 9B2 283 32 <:9B 2+20 = '49 ' ; ' "NC ' 28 .: 9B28 =9B* GB2+9' ; &:53 :B3 4 E2B3 280 + R 25 ' ?92 :5 E:9* 4B 3 8:9 +232B0 ' "66 B ' "NC" LL 54 30 '3:B30 4 58 +2 <29<+2 ' =9839G2B+9
- '# 'S 6 8' B@2 E:98@9B20 ; :5 JB 54 =9B* +9=2B+90 ?92 8 ' '0 '/ '0 ,
' :B J 52 5.:5592' .=2+23<B 3254 ?9& + E 25 ' 42 2 ; 540 ; 8 8 58 4 B2 42 ?92+ ; :3 &283 <293 3B2 ; ' ; :3 42 \53 8 20 . : ; ; 2 3:9B* :3 :9 <:9B <23 3 8:+4 3 ?9 ' : 3 +2 G2 9
3 ' # 0 Q=9B*+9*< 0 < 2/0 ";' # B 88 0 G:9B ' 5 +5 4G8 8 A =233B28 49 ; 3 5 3:93 283 25 B0 .: 9B2 =9B39< 20 <:94B 20 B 8 20 8 E' NN' :93 22+ ' = 3 552 <23 32 3 32 42 .=:9 B:5420 8 58 59 2 .=:82 < B +28 .4328P 3:932 \'3 32 592 23 =9B* +9< 20 ' "F ; "NC"
- ' (! ' 2 ; :3 < B +3 3B2 552 +3 B 3 :5 42 5? 25 ; :3 , " '?9 '8 J5 3 = B 88 0 23 4 58 \?924 253B 3 <B:G =+2 ; 2 3 +2 ; :3 $ ' 9 8258 42 <:+ + 42 + ' 3 32
LL" ' # 0 'Q=9B*:50 :*5&+0 ' ' 23 ' #: . ; 20 2 ; ; 2 << B325 53 ' 52 5 3 :5 42 8 9E J280 93B2 : 8 5 : ; GB2982 23 <9 88 5320 3 * G+ 2 9 5:B4 4 ' \:' #9B:50 4 58 ; B ?920 49 5:B40 @ J' 5 #9B:50 95 '= : ; ; 2 ' 8 ; 2B ' &283 95 EB ; ' #9B:5 ' :R2M .2 <:B3 2B 5 +2A G+20 $9 0' < R' <:9B 3B2 32BB G+20 3 ; 95 ' 4&+ ; 0 .W9B 4.' #9B:5 0 ' ' ; = ; 'LL 6 2 =9B:50 + ' + 5J92 428 #9B:58 ' 2 =9B:5 283 8 58 + G +28P :5 +2 < B\' 49 J:8 2B0 23 <B28?92 3:9328 +28 8R++ G28 8:53 8< 8 28
' ' # ' Q=5*B:5/0 ' ' 5.25 5 : ;' 428 =: ; ; 28 ?9' 3 253 .= BJ 8 4 ' ; 52B0 4 58 +28 8 J28' ' ; ' ?9 ' :5 '4:55 ' 9A < R8 58 ?9' B253 \' > .?92B 2
- ' 'S 6 F' : ; ; 2 + ; 28 4:' ! B28?9 2+ 983 4232598 <B 8:55 2B80 <:93 +2 8:9<<22=:5 42 E: B 283 '29 :83 23 G 3' 2 428 =9B:58 5: ; ; 2M @ ?928 G:5M*=: ; ; 280 ' &25 .:5332 428 5:G+280 5:'
0 +,
- ' (! 9B:5283 \5:5+45 :B2325 28< J5: P 3+2 B 5? 8 , '< ; +3 3B2 +2' ; ; 2 ; :3 QE:R0 E
3 ' # '23 6 6 ' :R' 'Q=9*8 B3 +2 ' 2 +2 ' + 2 < 8' 9 <+9B 2/

M)

5282'+2'< 8'428=9*8 B' 53B4< 428 .2<254 53 ?92+J928*958 +'+253'428 =9*8 B*M 53B4< 428/0 ; '@+ d E +2B=:5J : J'LL 5' :+:J5205:;'4:55N 42<9 8 3 2552 3G:B' '428 28. 4B:58 42 J253 +8* =: ; ; 280 B2E4398 4952 B ; 9B2' .: ; <+2320 23 89 E 80 .: ; ; 2 5:8 J254 B ; 28 49 ; :R25 3J20 42 <+98 29B8 82BE 329B8 J253 +8=: ; ; 28 29M* ; ; 28'LL ' 9@:9B* 4=9 0 8:+4 3042 . B +2B 2 NJ 2B2 4:53 95 :B ; 2 B2882 ; G+2 '.2+9'4'+' . E +2B 2 =:5JB: 82' +9* 8 29B8 428 ; 2 ++29B8 G988 B48 49 F60 25J J28 8 58 43B2 8:932598 4 58 95 G: 80 E25 253 4R' <2B B 8:98 +28 2 :B38 42 +'J B42 B98820 8N ; 0 # 830 ' . " ' +2 G988 B4 B < 420 B 53 42 J2BG28 4:B 8'<: 3B 52 53B < 420 E0 ' C ' E0 7'LL#98* 8 B48 42 +' ; :B30 G988 B48 5: B80 5: ;' 42 B2J K ; 2538 42 G988 B48 4 58 B ; 22 <B988 2552' 2 M2+2 428 =98'B48 5: B8 23 428 4B J:58 <B988 258 < B93 B24:9G+2B* +28 G988 B48 B98828 9B253 8 GB48 23 .9+* G9328 4 58 2+ ; 0 82. ; 0 ' . " A90 F'LL J' 28 G988 B480 .: ; ; 2 +28 4B J:58 23 +28 JB25 4 2B80 8:53 8:9E253 4:55 8 .: ; ; 2 +2 3R<2 428 ; :29B8 :9 49'+ 5J J2 ; +3 B28 23 49 8 58*J 52 :9 ; ; 2 42 +' JB:88 GB232 ?9 +8 .: ; <:B3253' ! 2332M . ' 42 .43G 3:98 .28 <B:<:8 42 G988 B4'LL#988 B4 25 @9<:50 952 2 ; ; 2 ?9' 2.32 952 32592 :9 428 J:_38 ; K +3 B28' :98 E:98 J9B28 ?92 @2 89 8 952 28<G.2 42 G988 B4 25 @9<:50 6' ' G' '0 ,' ,' '7' ' :9<2B+28 .B 58 428.G2E 9MG'+ G98* 8 B420 +28 \ 882B 42<9 8 +2 G 8 42 25.:+9B2 @98?9 ' ; : 3 40 23 .:9<2B +2 B2832 @98?9G +'3G32'LL EB2 '+'G988 B420 E EB2 42 < ++ J2'LLYd J' '+'=98* 8 B420 '+'G:98 B420 '+'_Q:5'428 G988 B480 8 58 B232592' 2 .9BG R 53 <<B 8?92@ E 8 952 2 ; ; 2 @2952 23 @:+ 2 3 + *428898 428 .: ; ; 253 B28 '+' G:98 B420 <' ' .:55'= ' 50 3: : -' #' 5'4 3 988'?92+?92 : 8 G:98 B4 230 <+98 B B2 ; 2530 G:988 B4'>2+9'< B4:552 .2332 :<2B 3 :5 42 G:98 @40 8 + 52 5:98 <B254' < 8 3:93 +2 B28320 '= ' ,' '<* ,' '@9 ++23 3CC' E 53 +9'H :9 8S I' :5 52 .:55 88 3 +28 G:988 B48 ?92 .G2M +28 2552 ; 80 ; '= , 'B##')' G G ++2 ; 253 42 G:988 B4'H?9 .5'4:55 3 8:9E253 9A 25 538 4 58 +20AE5 6 8 I0+: 5' 42 B2 ; G4 2B ' .23 5.:5EG5 253 < '83 J5 3 :5 428 G9 ; 29B8 < B .: ; <B288 :5I0 9J* ; 25320 230<:9B8 9E2B 9A 25 538?92+?928+ J 39B280 +28 <B2882' < B 3:93 +2 .:B<80 @' 5::88'C ' - !' ++2 ; ' , 49 G45JB: 8 , +2 E 5J3 G ; 20 42 , E 5J30 < B.2 ?920 4 58 +28 J92BB28 .:53B2 +28 9B.80 .G ?92 E ++ J2 42E +3 :9B* 5 B0 89B E 5J3 G: ; ; 280 95 G: ; ; 2 G?9 <G

3'# 'QG9*8 B*4/0' ' ' 8< .2 42 4 582 4:B J 52 G:5' 82'*

'M ?' ' ,

3'#3> 'QG9*88 * /0 ' ; ' ! 2 ; GB2 4952 82.32 :54G2 < B >2 5 #980 ?9'B25:9E2+' +28 4:.3B 528 428 334:8' .+2'G3 3 +2 JB 54 4:.329B 42 >2 5 #980 988'G 25 ?92 42 3:93 +2 < B3'428 G988 3280 ' :B'O' N"

3'# ' 9*83 5JG/08' '" ' 5' 5J+232BB20 283B 42 4:5 +28 . 54 4 38 '+' .G ; GB2 428 .: ; K ; 9528 :53 +29B <B: 288 :5 42 : P 230 < B 2A325K 8 :50 882 ; G G2 G+2.3:B +2 39 ; 9+392982 23 25 <+2 5 B 4 58 + ?92++2 +28 . 54 4 38 255253 G B 5J92B +28 G+2.329B8

(!' 5J ' , '&' 5J+:*8 A' , ' < + 8 42@983 .2

'QG9*3 5/0 6' ' 29A ; :3 ?9'8 J5 * 3 253G3G0 :< 5 3B20 23 ?9'52 8283 .:582BEG ?92 .: ; ; 2 89 ; : ; ' 4# 5 B:' 42 5.2' :9 8 S0 4 3 :9 8 +2 #93 5

(!'D e ++:50 , ' ; +3B 32BP 5.' hB 5Q' , ' ?92B2++2P ; :38 ?92 B 54J J5 J2 B 33 .=2 9'++ ; 54 =9382+250 82.:92B0 3 B ++2B

@'# 'QG9*3 *5G/0 ' ; ' 23 3 ; ++23 42 3:5* 92+ 2B

'QG9* /0 ' ' 23 32 . G 52 32 42 G: 80 42 32BB20 42 < +20 23.' 'G9332 4+ ; ' 8 9E J2' ' 5R E 3 < 8H' ! :8.:9I 952 829+2 ; 8:5 42 < 2BB2P +29B8 G93328 42 G: 8 G3 253 328 42 3B:5.8 4 BGB28 2549 38 42 ; :98820 9 ' * , ' V) 'LL 2B ; 2 42 .G 882' :J2 ; G9+ 532 4 58 + ?92+2 :G2+29B 82 .=2 <:9B+'< <G2

-' 'O I 8'/' ; 2 <B254 8'JB 542 B R29B ' @2 ; 2 ; 238 'G9332 $2 ; 25 9 8@ <+98 E 832 ?92 +2 E2530 5 ' - ' ' 3: ' (25 B 42 +' ; 8:5 9A G93328 B

-' (#' e ++:50 , '49 J2B ; 5 ?92 ' 5.' =' ++2 ; ' , ' ++2 ; ' ' , '4 5' 4 '89G4' 4 ' 5J ' , '.28 ; :38 3 255253 9 J:3= ?92 6 ' .G ; GB20 +2?92+0 .:5 :B ; G ; 253 '93 +:'42 B ; ; 0 283 42 ; G ; 2 B . 52 ?92 +2 58.B 3 'JB2.' A2 9:30 + 3 5 ,1 3 .283+' .G ; GB2 ' .:9.G2B ? - " " ' '3G9*3G0 G2/0 " ' " ' 42 G9332B

:JG 4 58 952 G9332' 2 ?9 + ' E 3 4+ G 3 538 H4 58 +2 + 3 5 3I G3 253 G93328 8:98 828 B9 5<8 :9 42 ; 29B 253 4 58 +28 . E280 ! ' '

'Q / Q=9*3G/0 'B>[*# 6 B2952 G9332 <:9B 82 +:J2B' 28 3B:9<28 82 G933GB253'LL 9@:9B* 4=9 0 25 < B+ 53 42 8:+4 380 :5 4 3 <+98 :B4 5 B2* ; 253 ' 82 G B ?92B'LL ' ' ' 5. 25 32B ; 2 42 ; B 52' #9332B +28 E2BJ9280 +28 ; 252B @98?9 '+' ; ; 3 G 49 ; 3 23 +28 ; 233B2 25 .B: A0 5 ?92 +28 E: +28 <B255253 ; : 58 42 E253

-'# 'S 68' 9B +2 = 93 42 E:3B2 .:++ 52 E:98 283 2M :B3 .: ; ; :42 ; 253 G9332 <B28 42 E:8 429A < 2.280 ' '50<' " 0 4 58 0

' ?'D7

3'# 'Q=9*329B/0 ' ' 2B ; 2 42 .G 882' 2+9U?9'.G 882 '+'G9332

#(# 'Q* *8 5*/0 ' ; ' 3 + 532 G9+* G29820 E:R'> . ; # ' 3 +2 8 5J 4 4:5 8 23 +' G+ 5.G2 GR . 53G20 ' # ' - ' , ' " ' , '$ ' 'LL ' 2BB2 <BG. 2982 495 @ 952 3 B 53 89B +2 B:9J2'LL 2B ; 2 42 @: ++ 2B' 2 4 3 42 E B G3G842 3:< M2 :9 42 JB25 30 ?92+?92 : 8 ; G ; 2 42 ?9 B3M 4952 .:9+29B @ 952 42 ; 2+'LL 2B ; 2 42 <= B ; . 2' :5 2.3 :5 4GR . 53G20 <B2< B 3 :5 ?9' :.5325 3 42 =R . 53G20 49 8 B 50 428 89G83 5.28 G8:BG 5328 23 428 89G83 5.28 2A. 3 5328P 9@:9B* 4G9'.2332 .:5 2.3 :5 52 .:53 253 <+98 4=R . 53G20 ?9'283 .: ; <+G32 ; 253 52B32LL' 4R' $9'283 495 G+29 3 B 53 89B +2 E :+23' ' .:9+29B GR . 53G2' 'F' 2B ; 2 4 53 ?9 32' 3: 2 .:9+29B 42 .2332 < 2BB2' 2 GR . 53=20 42 +'<:9B<B20 42 G. B+ 32 32 532 429A : 80 'D '>7 'AAE0 " ' 8 25* E2+:<<2B:53 988'D 932+ 4:B 495 4B < 4GR . 53=20 +8 23254B:53 < B*428898 952 .:9E2B39B2 42 <2 9A E :+233280 ' 1'. 1' E0 33

'S 6(' "(2*/$"2%-*/(' #!O&&"'+ ; ('"%'#" ; 802-/% ; "'*'" ' 'BBA' " ' ! ; -' !"(+"'O!#"' 0'9O2-/% ; "'&"'(04 ; -''&"' 7'"/O%'-/') e

-' (!' A E :.05: ; '495 <2B8:55 J2 ; R3G:* +:J ?92 39G < B <:+:5 23 3B 58 :B ; G < B +9'25 +29B' 2 5: ; '42 +' +29B '< 88G '+'< 2BB2D

3'#(> # 'Q* *8 5*3 *5/0' ' ' 8<G.2 42 < 2BB2

'Q* *46/0' ' ' 'LL ' 2B ; 2 42 ; R3G:* +:J 2' ++28 4 3+ 8 ?9' <+29BGB253 3 53 +29B B2B2 #R 80?92 >9< 32B +28 3 58<:B3 ' 9 . 2+ 23 +28 .G 5* J2 '25 83B28'LL 6 2B ; 2 4 83B:5 : ; 2' :5832++ K 3 :5 42 82<3 G3:+28 '+'3G32 49 9B2 9 23 4:53 +28 5.258 .B:R 253 ?92 +2 +2E2B 23 +2 .:9.G2B G3 253 3:9@:9B8 .: ; < J5G8 42 <+9 2' 28 8: ; GB280 +28 3B 8 28 #R 428' 2B28 8 25 9 3 G<+:BG2 2 E: B 25 <B: 2 :BG2 28 J9GB238 4G< 8.G BJG8P 3 8:98 +28 9 ; 28 5J29828 28 #R 428 :B J29828 I :98 8283BG* 8:B8 89G ; 2BJG80 'C ' , ' ' . , ' 2<9 8 +:5J32 ; <8.28 +:.93 :58 :53 .288G 4G3B2 25 B <<:B3 E2.' G3 3 49 . 2+'+28 GR 428 82 GE253 23 82 .:9.G253 9@:9B4G9'254 93B28 8 8:58?9 +:B8

'# $ ' I'P ('#"#"g'4'!.*-'

3'#('Q* * 0 ' ' 2B ; 2 42 .:5.GR+ :+:J 2' 25B2 42 ; :++98?928 42 +' ; ++2 428 <3GB:<:4280 ?9':53 952 .:9.G2 . .=22 < B+2 ; 532 9

3'#(0 'Q* *+ 50 + *5/0 6' 2B ; 2 4 4 .* 3 ?92'$9''< B25.2 :9'+'4 <G 5G 3G 49 E2BB2' $9 B3M GR + 50 +2 .B 83 + 42 B: .G2

' ?'I $OO*2'."''"

3 5 + 'Q* *+*3/08' 2B ; 20 42 ; 5GB +:J 2' (B G32 42 ?9 B3M ?9'B2882 ; G+2 '49 E2BB2

'# $ '& 2 '."''"'"%'0'$-/O"' ' , !-'# ; (-7/'" ! /'"(! ; (%0/2"

#(# 'Q* *+:*JB */0 ' ' 583B9K ; 253 <B:<B2 '4288 52B +'<2B8<2.3 E2 23 '4:552B 428 G<B29E28 495'4288 5

' (# 'Q* *+:*JB * 2/0@' ' B342 82 82BE B 42 =R +:JB <=2'LL 2 539B2 ' 42 :9 9 3B E2B8 495'. BB2 9 42 E 3B2

-' (!'D :S:.0 E2BB20 23 R 4 8X0 4288 52B b (+ 'Q* *+:* *4/0 * ' 2B ; 2 4 4 .3 ?92' $9'B2882 ; G+2 '49 E2BB2P E 3B2'# 2B ; 2 4 5 3:* ; 2' 9G83 5.2 :9 G9 ; 29B GR +:42 :90 8 ; <+2* ; 2530 GR +:+420 G9 ; 29B E 3BG2 42 :2+ ' ?'F *O*2'."''"'"%' *2'$*'+"

j'#(0 'Q* *+:* *4 50 4 G*5/0 "; ' 2B ; 2 4 5 3: ; 2'$9' << B3 253 'GR +:+42 :9 G9 ; 29B 3BG2

3'#('Q* *+:*8:* ; /0:VQP' 2B ; 2 42 M:: * 0 ' :53 +2 .:B<8 2830 3B 58+9 ; 42 .: ; ; 2 49 E2BB2

-' (!'D S:.0 E2BB20 23 : < 0 .:B<8

3'#(# 'Q* *+:*3G*\5 2/0 ' ' B3 42 3B E ++2B +2 E2BB2

-' (!' S:P0 E2BB20 23 +2RR50 B3

j'#(# $ 'Q* *+:*3+*+.5 *\/0' "; ' $9' 'B <<:B3 ' GR +:32.=5 2

3'#(> 'Q*F*+9B*@2/' ' ' 2B ; 2 4 4 2* 3 ?92' B3 42 GB ?92B +2 E2BB2

' ' S:.0 E2BB20 23 <R:E0 3B E +

'#('Q*GB *4 *8 :5/0 ' ' 2B ; 2 4=83:B2 5 39B2++2' B:49.3 :5 42 <+ 53280 4 5 * ; 9A GRGB 428' 54 8 ?92 <+98 29B8 :53 <258G ?92 =RGB 4 3 :5 52 <:9E 3 4:552B 5 88 5.2 '428 :B ; 28 <2B ; 525328 ?92+?928*958 :53 4 ; 8?9 95 =RGB 420 J 88 53 < B 8:5 <:+25 89B 8:5 <B:<B2 < 8K 3 +0 <253 <B'9 B2 428 <+ 5328 ?9'+9'B2882 ; G+253 < B 3:98 +28 . B .3GB28 288253 2+8 <254 53 952 82B 2 <293*G3B2 54G 5 2 42 J25GB 3 :580 '

' '*' " ' , '" ' '<'7N"D

#('Q*GB *4/0 6' L 0 2B ; 2 4 53 ?9 32' 5 <<2+ 3 GRGB 428 +28 25 538 495 <GB2 G3B 5J2B :9 4952 ; 2B2 G3B 5J2B20 ' , ' ' . ' $' ' 2B ; 2 42 <GR8 :+:J 2' $9'<B:E 253 42 429A 28<2.28 4 GB25328'LL + 5328 GRGB 4280 <+ 5328 4:53 +'JB 52 <B:E 253 495 EGJG3'' ?9 0 9 +29 4G3B2 G.:54G < B 8'<B:<B2 28<2.20 'G3G < B 952 93B2' ' 5 ; + GRGB 42 0 5 ; + 5G 42 429A 5 ; 9A 42 4 GB25328 28<G.280 .: ; ; 2 +2 ; 9+23'LL ' ; ' ' BB E2 :B4 5 B2 ; 253 ?92 +28 GRGB 428 52 4:55253 < 8 42 JB 528 2B3 +28' G2M +28 5 ; 9A0 + 283 B B2 ?92 +28 GRGB 428 82 B2<B:49 8253'LL 0 2B ; 2 42 JB ; ; B2' ! :38 GRGB 4280 ; :38 .: ; <:8G8 4G+G ; 2538 <B:E25 53 42 + 5J928 4 GB25328' A A ' 283 GRGB 420 .: ; <:8G 42 ' ; :3 B 5? 80 23 SGR:.0 ; :3 JB2.

- (! 3'& # " # " "3'49 JB2.' N< W0E :+

3'#(! 'Q*GB *4 *8 ; /0' ' ' R5:5R ; 2 4=RGB 4 32

3'#('Q*GB *4 *3G/0 ' ' I 6 2B ; 2 4= 8K 3: B2 5 39B2++2' :54 3 :5 495 G3B2 :BJ 5 8G0 <+ 532 :9 5 ; +0 ?9'283 +2 <B:49 3 42 429A 28K <G.28 4 GB25328'LL J' 'R' '<+93G3 .: ; G 5 8:5 ?92 ; G 5J2 4 58 +28 . 8 4=RGB 4 3G 253B2 428 B .28 5 3 E2 ; 253 4 83 5.3280 " ' ') - (& - -' " '-! '(!- - '3'90 <' " ' ' ; G ; 2 2.G2+2 ; :5G* 3 B2 'G3G <:B3G2 <''+28 :B ; 548 25 5J+232BB20 : '2++2 8283 88:. G2 9A 5: ; 8 8 A:58 42 !7-"' 42 (& -/' '42 <255R0 .: ; ; 2 <:9B ; 29A .:583 * 32B GRGB 4 3G 49 5:9E2 9 3R<2 <B:49 3 < B+' .:5* ?9G320 '0# - '"' ' & !#'4X'# & '56 ' ' ' 2B ; 2 42 JB ; ; B2' $9 +3G 495 ; :3 :B ; G 4G+G ; 2538 2 ; <B95328 '429A + 5J928 ' ' 41

3'#(# 'Q*4 B*3B/0 ' ' ' :9 #(* # 'Q*4 <*3BG*M/0 ' ' 2B ; 2 42 .= B9BJ 2' #R4B:< 8 2 B3 .9+ B2

' ' X<0 2 90 23 "<N<:E0 B3 .9+ 3 :5

3'#('Q*4 *3 ' /0 ' ' LL 6 2B ; 2 42 < * 3=:+:J 2' ; ; '4:55G 4 G:B4' '952 <23 32 39 ; 29B 25\R83G2 42 +' < 9< 2B2 89<GB 29B20 <9 8 ' 3:9328 +28 39 ; 29B8 25\R83G28 ?9' .:53 255253 95'+?9 42 ?929A 23 3B 58< B253'LL 6 :B32 42 < B 8 328 . * B .3GB 8G8 < B 428 EG8 .9+28 + GB28 42 3:9328< B380 E E 53 4952 E 2 <B:<B20 23 B25 2B ; 53 :9 52 B25* 2B ; 53 < 8 95 5 ; +

' DB +P0 E288 2 <+2 52 42 90 42 .:<0 9 A:P0 2 9

3'#('Q*4 *3 *4 5/0 ' ' 2B ; 2 42 .= * ; 2' 9G83 5.2 :BJ 5 ?92 3B:9EG2 4 58 +28 GR4 3 428

j' ($ '' Q*4 *3 *4 *\/0' "; ' R5:5R ; 2 4GR4 3 ?92' D

' 'K "!K"

3#('Q+*4 *3 *4:*8G*+/0'6' ' 2B ; 2 42 ; G42. 52' 9 ; 29B .:5325 53 428 GR4 3 428 - 0 (!''4 '23 A S ; 0 39 ; 29B

'#(! 'Q*4 *3*:B* ; /0 "; ' $9'283 25 :B ; 2 4GR4 3 42 :9 ?9'25 '+'3B 58< B25.2' 9 ; 29B GR4 3 :B ; 2

j'#('Q*4 *3 *@G*B/0 ' ' 2B ; 2 42 M::+:J 2' R5:5R ; 2 42 .R83 .2B?92

' '4 '23 +2 + 3' '<:B32B

j'#(0 'Q*4 *3 *5 50 5 G*5/0 "; ' R5:5R ; 2 4=R4 3 ?92

3#($ 'Q*4 *3 *\/0'4PT' $9' << B3 253 9A GR4 3 428' R832 =R4 3 ?92'LL BG ; 882 ; 253 =R4 3 ?920 E:R' #

#(! 'Q*4 *3 *8 ; /0 ' ' 2B ; 2 42 ; 2* 42. 52' B9 3 . 982 < B +' +9.39 3 :5 495 +?9 42 4 58 952 . E 3G

' ' :<0 A:.0 2 9

3'?U #"-* 'Q*4 *3:**4/0 "; ' 2B ; 2 4 5 K 3: ; 20 ! 2 ; GB 52 GR4 3:+420 ; 2 ; GB 52 42 =9* ; 29B ?92982

' ' 2:<0 A:P0 2 90 23 . :P0 :B ; 2

b#('Q*4 *3:*+:*@2/0 ' ' R5:5R ; 2 4GR4B:+:J 2

-' (!0 6 F!<0 A:.0 2 90 23 SGR:.0 4:.3B 52

3'#('Q*4 *3:*8\:*< 2/0 ' 'O) 325492 4 E 5 3 :5 9 ; 0R25' ' 2 9

' ' 3 (! ' X<0 B: 3 2 9 V6 L eC(/ ' 2A K
; 52B
3' # ((> '33*4 >3:*+/0 ' ' FR52G@k@2' *42
2R83 .2B?92
' # (*'59' 'N 2 49 JB2.' NF< W*
?9 E +253 3 4 W:<0W P .: ; < 22 +2 + 3 5 94 :B0 =9*
; 4 32 5" 7 ' =: ; 42 58 B'W4:5' : ; < B2 988'
+2 58.B 3 :6 ; 4BW0 5=R4B2 X3:4 ; " b7-" '
; :9 ++2B0 23 +2 83' " ' :542 + '53. 52 283 7" '
:50 25' :B ; 2 <+98 : 32 +2: 0 ?9 ' 82 B 33 .=2 +:B8
9 J:3= ?92 5 !3 +2 ; ' :88X" 5J+'Q #' 2 9
3' +('Q *4B *8 *4/0 6' ' X ; 2 42 V.=*
; 2' . 42 ?9' B489+32 T42 4 ' 2: ; G 5 8:5' 4 ; '
.:B<8 8 ; <+2 :9 2: ; <:8 ' 2E: :*B=R4B:J 252
+ (! ' K "# *' GB4J4 T42 6 "# "-)' V23
("
(3 2 ' Q3*4B *'0J=/ ' *E' 2B #2 42
; 442: 52' ; ' + '<B:<B 23R 4 E . 2B " ' 8 B:83 '
'@' ' 5'G:5 =R4B J:J92
'>.E6 8' + 28 ; 24 . ; 23338 GR4B J:J9280
G283* *4 B2 ?9 'R 4253 4 2 9 3 ; 3< B + 28 82+28 ?92
< B42 2 9B 528 . 6 ' 0 32'
*0*T 3(! ' D <:R:@R ^0 42 4F< +Q' 9" 23 @R2 E0

3 T# (4 + Q *4 3+*\G> +/0 ' ' * + + U"
b ' 42JB2 ' .253 8 ; 9A0 :9'. 3 3 5:3 ' 25E *0
T3:5' 42 8:5' E:+9 ; 2 4 9 <<2+ 'E9+J B2 ; 2 3 2 9*
42*E 2
-' (! ' K "# ' 23 ! !
3' # ('Q *4+3 +*+ *3'0 D['^ 2+< ; ' 42
33 42. 52' #R4B:< 8 2 42 ++ 434 42
' 'K "# ' 23 - ! "
D (! 'Q *43 * ; 5 *:8/0 ' ' 2B ; 2
4:' ; 42. 52' B 3 ' 4 =R4B:< 8 2 3 B 52 . B :*
3 B 8 2 < B G:54 542 422 2 9A 42 ; 5 8'
*@ J3(! ' K "# ' 3 ; #3:8
3# ('QeB 5? 2/0 2' <' B ; 2 42
G:3 5 ?92' 25B2 42 2 ; ++2 448 A J 28 *W2
X: ; <:8 5' 4 BGB 882 9A + J 438 :B J 5 B28 42
; B ?92 22<3253B 4 +2 49 > <:5U 23.' =:B0'
3258 ' 283 952 GR4B 5J 2
! ']# $ K /8# ' ' %# (5' .0-(("0" '
3' # (('Q ! 2B*@ *30/'0 ' 2B5 D42
= ; 2' 5. 25 5: ; ' 4 ' 52B2 B2
' '#4048 ! 4 ! 2' 72' MB4@ -' "0 ! ' "% 4@
8.4*5' 0-7" /%> 0 'H /%'&-, ! -#"
j' # (('Q *4B B*@ #*4D/08' '<[' *'
; ++2 42 .:B<8 4:53 GR4B BJRB2 : ' 2339 2 283 +2
3R<2
' 'K "# #/ # ' 23 2%F:E0 e 2
3' # (('Q *4B B*@ *B 2/0 6' ' 2B33B2 42
; 42. 52' B9<3 :5' D.9384 ' < :49 32 < B 435 *
5 83B 3 :5 428 <B < B 3 : 88 ; 2B.93 2+28 3 2 B .*
3 B 8 2 < B 42 <23 328 8 :9 28
' 'K "# #/ #
3' # (($ 'DQ *4B B@ 6 *3/0 "; ' $33'
<< B3 253 :9 22 3 <<:B 2 "' GR4B BJR 2 :9 ; 2B *
.9B2' ' 9 ' D << B3 253*" =R4B BJRB 2' .. 42538
=R4B BJRB ?928
*' + ((*e 'Q *4B B@*e /*2 * *
5 *3/0 % ' ' 2B ; 2 42 2= ; 2' 2 <B:49 3 < B + '
.: ; G 5 8:5' 42 . 42 =R43 BJRB:*.R 5 ?92 E2.'
952 G 82
3' # (((>#$ ' Q >4B B*@ :*8 * *
5 *\/0 "; ' ; ' 2B ; 2 42 2= ; 2' . 42 =R4B BJRB:*
.R 5 ?92 . 42 <B:49 3 < B +] : ; G :5 49 .R *
R 9 2 42 ; 2B. :B2 E2.' =R4B:JG3 2
' 'K "# #/ # 'L ' (- =7
j' # (* ! . +$ 'D-@#%0'@9? @
<529* 5 *3 *\/0' b:4@' 2 =R4B BJ@X ' 2 ! *
3 ?92 . 9E2 <+2 52 42 2B29B2 4 ; 8 + ? 2 283
4 8<:822 5*4288:98 42 + ' 84B 2 T433 ; 3 +] ! 2
+ G+2332 <B:<B2 ' 8:9+25 B 428 D 23: =28 '8:48 28*
?92+28 :5' 3 < 882B0"* 42 4 95 39G2 *: ! 492*
329B +28 J +M ?92 :5 B253 B2. 2 + B
-D (! ' K "# #/ # ' 23 - 7 '
3' # (('DQ *4B B*@B6BN*M/0P6' ' 2e 2
D42 ; 42. 52' B .3 25 ; 2B49B 2+2
,-' (! ' K "# #/ #
'# (('Q *4B ? 9* /06' ' 2B ; 2
42 2= ; 2' ; +J ; 2 42' ; 2B:9B2 E2.'9 D ' 3B2
; 23 +
' 'K "# #/ #
j' # ('DQ *4B *3 *G+/0 "; ' 2B ; 2 42
2= ; 2' $9' 2 3 898.2 <3 G+2 42 *82 .:5E2B3 B 25'
=R4B 32 42 82 4 + ; G 52B E29+2 9* 25' <B:<:B3 :58
4 5 28
3' # ('*Q 4B *+ * 8 :5/0 '[2 52 42
2= ; 2' :5(2B8 :5 25 =R4B 32
# (' Q 4B * /0 ' ' 2B ; 2 42 = 3 2'
: ; G 5 8:5' 4# 5 2AR42 35 3 ++ ' 0 23 4 2 90 4 58
+ ?92+2 .2332 D42 +G32 @:92 D32 Be 2 40 : 42 < B
2A2 ; <38 =R4 32 422G 9M:9 '283+ ' .= 9M 32 5320

1 ' .:I ' .. ' "% .:) . M' 2 ? 2 ' J 2)J$ 1 '
' 2 ' . '4 '0. ,$ $$1 '. 'G [2$ 7
' K "#
G`GA G 0$).) 5 '" '" ' .:EQ)
' c $ J1 $ ' . ' ! ' : ' . ' 11M4$)
$ 1 '0 J . EQ. ' .$' 1 I ' .: ' J$.
; 2532 42 2 9 4 58 4283 ' ' '25 J 5'B +0 95'
11 ' . ' ? $: ' J1M4$
H ; DGA A' 0 :7 0$).) 7 + ' ' M' .
EM 'C . '2 'J I 4 '. 'EQ.
- (! ' K "# '
L ' ; `GA c '0$). &$)6:7 + . 7 ' M' . 'JE$)
M$ c $ ' ? 2?) ' ' J JE ' . ' EQ^
. ' ' E 'EQ. $? 1M < :1 ' + 1 1 '
1 ' : E ' 2, $?
' $ ' 4
3' # (' 0$).)2 ; $$$(7 8' 0 5J *
$ ' ? $:1 1 ' . ' :EQ. $ 2$?
f ` A _P$_2 G'0$).) & $) $7+ ', 'c 2$. '
M1 $ 'EQ. ? EQ. J$ ' . ' $M
' ; D A GP2N)C ,,$ $ $c_G &$). _))6)
)M) $)62 6' c+'- !I3 ' M1Q ('
. 'C $
))' ' 4 , ' ' M ?$J
(B ++$ 'Q *4B4* *\/0 6@ # "6 $9 ' 82
; 293 @:92 < B 42 2 9' .:549#2 25' 428 39R 53'
BJ92 =R4B 9+ ?92 + $9 ' 'B <<:B3 9A ; :9E8*
, ; :9E2 ; 2538 ?9232:5?928428+ ?9 428 ' B E 9S =R*
4B 9+ ?928 'L B.=32.39B2 =R4B 9+ ?92 .2 +2 ?9'
'D<:9B G 23 +22 2:583B943 :58 48 ; 8 2 929 /2 ; :9*
E2 ; 253 42 ' 2 9 'L = ; 2 V=R4. ; + ?92 ; '952
?9' + E' B2 9 # 2882 =R4B 9+ ?92 <B2882 4 58
+ ?92+2 + 'D<B2883:5 283 <B:49 32 *< B "2' 2 9'
' + 2B =R4B 9+ ?92 E:R'W \ 'L D 2B ; 2 4 B.= 6
32.39B2' :+:5=2 =R 9 ?92 *: :+:552 49 = 93 42
+ ?92+2 9:B3 ; 5 @23 + 9?92+ +2 V.= < 32 9 82B3 42
.:9<2 $0: ' 2 9 B23: ; G2 93:9B 49' 43' LL"+: .3 2B
=R4B 9+ ?92 ; :B3 B ?9 ' ' + ' <B.<B 3 V42 49B2 B
4 58 2 9'Q D = 9A =R4B 9+ ?92 8 + . 32 42 .= 9A
D<B:49 3 < B + ' . +: 5 3 :5 0 ; 5 '2'4 95' . +. B2
.:5325 53 U952 22B3 52 ?9 53 32 42 8 22 3BG8*4 *'
8 2 .23323.= 9A 49B: G8298 2 9 ; 5 ; '32 ; <8 <+98
:9' ; : 58 +:5J '3 Yd@' ' . 25.2 B3 ?9 '2582 ' 2'
! '2:549 B2 23*"' +2E' 28 2 9A0 >:B8 + 3 3 :B3
?9283 :5' 42 2:549 B2 422 2 9A0V23 :5 +G J *
3 :5' "' 22 28042 T(; 8 +28 4 E: B <:B3 ' "95 = 93
<: 53 U '22 2522 049 ; E2+: 253 D '>3=R4B '20
25' ' # B2 ' 5J3 @ B + '< B332 4 '+ '<=R8 ?92
?9' 3B 32 42 U3:98 U+28 <+/ : ; " 2 'B R 53 B <<:B3
33A ; :9E2 ; 2538 428 + ?9 4280
' -1 < ' ? $ JE $' ' 21
.1Q ' .1' . -! ' a I1Q@ `$3 I !
$ -1J Q
D 5 + 80 IL 6 23 ; 2 42 ; R3=:+:J 2
#R4B2 42 c2 ; 0 T82B<253 3G ; 29A "' *8 '3 3 328 23
"' ?9 ' 2+28 329 88 253 4 8 ?9 U5 9 ' 25 9(3
2:9<4033 ! U(2 8 2 R2M ?42 +28 + 2 28 4 #2B. +2
?9 '39 ' .2 <2B 42 T 253 9 2 @ ! 28898>0 253 D 3'
3B2 ; < 28 4 ' +2' 5J 42 GR4B2 42 D 2B52 '?9:'
.2 8 5J2 ; <2 8:55 3 228 + :G28R 2532532 ?923:9328
+28 G+2889328 ?9 +28 8 253 43 '53' 5.9B G+28
5' , " 'S ' #2 G94B 3* + < 8 B2. : ; ; 25.B '3:98
328 @:9B8 3' - T>2 B2. : ; 5 ! .2B +80*- ' 2 82B 3 = 8*
3: B2 42 =R4B2 42 25 ; 2 B: ' ' ' %
1& ' 7 ' ')' 'LL + ' ' ; 2 ' <: B ;
39 52 952 =R4B2 e :< 2B3 +2 52 3 328::9< 2 25'
3 B25 33B2 ; #203W ! B D 55 0 0D ' 28T B B:B8
42 25 253 428 =R '28 4253 + 4* ; ; 2 ' '45.' 4 $B*
+ 58 82 3B:9E 3 8:9E253 :B3 2 ; G BB 88 0 83*8 3'
"D W0 W ' ++ 93 D8 E: B 2 49 B2 + 332B +YR4B2
49' <29<+2 E:M E C "# ! ' 0 ' 5' 3 !5 ; ; 2 42
+233B28 <:9B <2 U V '& + 3 42 B < 3 3 :5 283 95'
#2B.33+2 ?9' .. ; G ' 428 =R4B:8P <B 32M* ; : 'E:3B2
; 8892 R ' <+98 42 : :93 J2 ?92 42 :B.2 R"2W D
5 'F :43 VCNC' 28 <B 5? 8 .: ; G 3*
3 253 4 58 +289 + 8 952 =R4B:'3:9@:9B8 B2: 88 532
!7 ' ' B ' 5' ! 25 42 .:9<2B+28 3 328 42
=R4B2 +8 82 G: ; 253 ! 'B :B4B2 + ?92920 '
+ ' @(&B 5 ! ' ' 42.' D3 NF' 5B8?92 :889 '
428.254 3 4 58 + ']: BB B2 *+ ' E .3: B2 52 42*
; 29B ' < 8 +:5J32 ; <8' 9 4 . 82 =R4B2 4: = B 82
93 4 2 5:9E2 9 *32BB 88 2 . ; 5 D 5 0 0 '3'
' 3 =R4B2 42 5 B2+ 20 +28 23 :28 T ' "28 4: .K
3B 528 .:58 4 B 28 .: ; ; ' 5 9+3 L4W8 ' B25 8*
8 5328 ?9' ; 25 :253 :B4B2 3 G ' 4' 6 2BB 2 42
G+ 8:5' 2 4 3 ?92+?92 : 8 4 + ; 2 2:9+233 :9 4 95'
82B<253*4 2 9 ! 82<3 3 328 ' 2 ' 2B ; 2 Q 83B:5 : ; 2'
:5832+ 3 :58 983B +28 ' #R4B2 ; 32 :5* 2B<253
398X +0 23 R4B2 2 ; 2+2:9$: +29E ; +3 "' 2B ; 2
42 I : :+:J 2' 25B2 42 B2<3 +28 :<= 4 258 .:BB28<:5*
4 53 <B 82532 ; 253 ! 952 82.3 :5' 428 =R4B:<=+428
9 82B<2538 4 2 9' N' 25B2 4 2< : +R '0: ' :5
4 83 5J92 =R4B2 E2B32 42 55 ' 52 =RVG2 283 ; 5

11M 1 ' . ' 2 $ ' 1 $ ' ' ' 1 '
J1MM 1 ; $$ '* " ' 'C>. ' I $
' ! W . ' C ' X ' ' 8 M ' . '$ $? '
C2 ' . ' < ' J1M$,2' * " 4 . ' '
. ' = 5 0J 1 EQ2 7 'T ; Q. 1 EQ. 2$? $
M JE$ ' ? $ ' M1Q ' . ' $ 1 ' . ' '
1 J 1J ' JE ' . [J1 $. 42'
1 ' ' ' 2$ ' ' H M ' .: 2JE$ $ ' P:EQ. '
. ' < '1 ' $ ' ' < 2 ' 2 ' E 1 1 E 21&
' A ' c 2? ' ' 1 ' 2 'EQ. ' M)
2$ 'Y ' IM ' ' ,1 ' M 2 ' J $2 ' 1 '
2 ' 1 ' ? '2 ' $ ' 2 , $ ' C I ' < 1 5
J1MM ' $ J ' ,, $ 'X: $ ' EQ. ! 21'
, JE M ' 7 ' C ' / ' P I1$$. ('
$. '2 ' $ 1 ' ' . ' ($, ' I 2 ' '2 '(
J 'E1 JE ' '2 ' J 'M $ ' . ' EQ. ' $ J 2
A ' $ '" '#I$ T Uc . JE ' . 'G Q$
P:EQ. ' . ' , J $1 ' ? $ 1 5 . ' 4 ('M ^
? ' 1 ' ' ,$ ' ' .: 1? ' , 4E ' , 2'
$ 1 ' 1 ' ' . ' $2 I ' 9 ' . $ T
-' (! 'V G0I1Q' ; ' A 7
H ; ' GG ; '). 2)1 7 ' ' M ' . '
M . J$ ' 2 < ' .: ' :E $2
' ' ' 4 ' ' $1 I E $2
$) ; ' G,$ 2 '0$).)M$ 7 ' ' ' M ' . 'M .)
J$ 'C .1M$ J ' . ' 2 M ' < $ ' '2 ' <21^
4 2 ' . ' <
'# $ ' 4 ' '1 < , <
' $) ; `GA P '0$. M) ' M ' . ' J)
$? JE$ ' 1 ' ,4$ 'M1 ' . ').)
' 1 ' $I ' M1Q ' .: ' J1M4$ $ 1 '
.: $ ' '.: '
L ' ' ' A 4 A ' 1$. ' I
I 'G`GA : G ' 0$). $)) $ 7 + ' M ' .
M . J$ 'C $' . '2 ' E $? '? $:1JJ '
. ' M 2 ' . ' # .1 J (2 ' ' M$ 2
'4 $ .1 JE 41$ 1
' ' ' 4 ' 1 M . J$
' ; '2 2 ; _ A c G I1Q'Q $
A '2 ; ' A A
)'G`GA AG &$). $)1).) (' ' _1M4$^
$ 1 ' . :$1. ' ? $ ' M2 .:E $! J
$1.EQ.
$) ; `GA X'0$). $)1 7 ' ' M ' .: $? $ '
1M .1 ' 2 'N J ' ., <Q ' I ' !' '
2
$ ' ,1I J JE . ' . M
V' ,$`GA2c '0$). $)2:7 L 6' M ' . ' E$M$ '
G ' .$' . ' J1M 1 ' .: ' J1 ' $M 2 ' I J EQ)
. 1<4 ' #Q. 'EQ. $?
' ' 4 ' 1 ')4 '
' ; `cG ' ,$# I1Q' $ '
L'*& 54 # 3FG# 0$). 1))$) $)6:7 6' M '
. 'M . J$ 'c $$ ' . $ ' 5G $'
1 ' 1 'EQ. 1 $? J 2 $? ' .1 ! '2 ' ^
J $1 ' 1 ' ! ' : J 2 $1 . ' J I$ ' . '2)
? 2 ' ' 1 I ' ! '2 ', $' . ' $' ' 2$? $. '
$(#'1 'M ? #
$ ' ; Q. 1 '2 '2 $ '1 .
H `GA A X'0$). 1)) $) 7 ' ' ' M ' . '
M J$ ' ; Q. 1 $$' . ' 1I $
$ ' ' ; $1 $1I. M $, ' . '81/'1 ,
% $ ' ' 0$). 1$) 6) ' R)
$2 1 ' I$ '2 ' ' .: ' 1JJ $1 ' ' '2
(' . '4 # . '2 ' J2
'# $ ' 4 ' 1 * . '
' ; ` A G A X'0$. 1)4)) $$ 7 '
$' M ' . '[1 1<$ ' 0 M$ ' '. ' E)
J J1M 'J # ? $ I$I ' E 1$ 2 M '
. ' '1 ' . 'B 'B$ # E M$.
'# $ ' 4 ' ' 1 '
, ') ; ` A G '0$). 1)E$ 7 6' $M ' .:E$ 1$ '
) 2 'c $ I$ ' .
' ' ; Q. 1 ' ' D$
% ; ` A GA _ ; '0$). 1)4)JE:7 6' M '
. '[1121<$ ' c $ ' .? '4 JE2 ' 1 ' ! $ $
' ' ' 4 ' '>1G$,
H G` ; GA ' 0$). 1)4 1)M ! :7 ' '
M ' . ' EM 'X1M < $? ' . ' 2' 1. $ '
'2 'J1M4$ $ 1 ' . ' : J$. 'EQ. 4 1M$? ' I '
2 '4 ' ' .$' 1 .E $ 4 1MEQ.
L ' ; ` G GA c '0$). 1)4 1)M $)$Y:7 6'
J$. 'EQ. 14 1M$? J$. ' 1. $' '2 'J1M4$^
$ 1 ' . - EQ. 1(' ' . '(M ' . ' 1)
.E $ 4 1MEQ. $?
'# $ ' ' 4
5%' $. I. 1))E1)) 7 'M
M ' . 'M$ 1<$ ' N E1 ' ? $ J1 $ ' .1
' ! ' . ' J1M4$ $ 1 'J4M?
' ' ' 4 ' * 1
; `GA A f G '(1)6)4) :7 > M@
. 'EEM ' Q 1 QM ' .2Q. 1< ' * 1

6 ' Q *4B:*84* &/0' 6' ' 2B ; 2' 4^' .= '
B9BJ 2' 9 ; 9B' :B ; 22' < B' 95' ; 8' 4 ' 84B:8 0'
.: 3' 4 58' +2' 3 889' .2+9+ B2' 49' 8.B:39 ; 0' 8: 3' 4 58'
952' 428' 5E2+:<<28' 49' 3 83 29+ ' :9' 4 'QXB4: ' 428'
E 882 9M 8<2B ; 3 ?9 8
-' # 'S 6 ' &=R4B:< 8 2< B3 .9+ 2B 8G 9B828'
G835: ; ; 22' =R4B: .2+20' - ' 5
- $- ? '6 F<:A'SB0' 42 < '2 90' 23' A'SB0' 39 ; 29B0
Q *4B:*84*+ *+&/0' ' 'H' 0 2B ; 2'
42' ; 442452' #R4B:< 8 2' 42' + ' 3N32' '@6' "4@' $9'
283' + 2.34' 4&952' =R4B: .4<= +2' 5' 25 53' =R4B: .2*
<= +2' ' 9G83 53 E2 ; 253' 5' GR4B: .2<G +20
- ' ' AEB' 8' B2< 52B' 5' 4 ' E9 428' +2' 8 5J'
3: ; G4' 89B' +28' ; 25 5J280' :9' ?92+?928' ?9 :8 3280' :9'
=R4B: .2<= +280' ' $ '
- ' ! 'TS%<:A87 S:%0' 42' N<0g' 2 90' 2h'
3432
3' # (3: . ! ' Q *4B:*84*B 0*X&/0' 60' ; ' :B32'
42' <:32B 2' <:B29820' ?9 ' 82B3' "' ' <B: .9B2B' 4 ' &2 9'
B .=2' 25' ; 4
' 4 ' 2 '#& 3 1R' <:32B 2
3' U , - 8 # *L ' Q *4B:*84*B * > *+.&/0' 6'
$9 ' 283' 49' J25B2' 42' B=R4B: .4B ; 2' :32B 2' =R*
4B: .4B ; ?92
3' # (# ' Q *4B &\ *B *422/0' ' '<@'
2B ; 2' 42' G:3 5 ?92' 5 +2' 42' <+ 5328' ; :5: .:*
3R+24:5428' ?9 3 ?9280' E: 8 52' 428' + 8 ; .428
3' 6 6 Q' Q *4B:*\ *5:*5&/0' f' ' R:R
Q
(# 0' # (# $ 0' (:R
' Q
- ' (! ' K "#! ' 23' (& !# ' (& !# /7
3' # (' Q *4B:*8 B* :*82* /' ' '
2B ; 2' 42' .= B9BJ 2' : ; <+ . 3 :5' 4&952' . B8: . +2'
E2.' 952' =R4B: .4+2
- ' (! ' 4 ' 23' * *
((' Q *4B:*\ :*3 * /0' 8' ' 2B ; 2' 42
G:3 5 ?'92' 25B2' 42' <+ 5328' :5@G2 54B280' < B ; '
+28?92 +28' 283' &2.92+ 2' 4&2 9
- ' (! ' 4 ' 23' A:EE\5 ' 4:92+20
3# ((' Q *4B:*8 * *5 * /0' ' '
2B ; 2' 42' .G ; 2' :5/' J454B ?92' 428' 82+8' <B:49 38'
< B' + ' .: ; G 5 8:5' 42' & : 42' .R 5=R4B ?92' E2.' +28'
G 828' 5' <293' +28' .:58 42B2B' .: ; ; ' 428' .R 59B28
3' # (($ ' Q "B:*8 & * *+3&/0' 4^'
:R' Q
(! ' 4 ' 23' 4 , '
3' # ((' Q *4B:*8 *8 /0' W0' ' 2B ; 2' 42'
; 442. 52' R832' 84B29A
- ' (! ' 4 ' 23' 4 ' :9') 4 '
3' # (! Q *4B:*4 2 * ; &/0' 3' X0' 2B ; 2' 42'
; 442. 52' R5 :5R ; 2' 598 34' 4& 8 B?92
- ' (! ' 4 ' 23' 2<< 0' <2 90
((! ' Q *4B: ' 4 *5 * ; & 2&/0' *
' ' 2B ; 2' 42' <=R8 ?920' B3 2' 42' &GR4B 9 ?92'
:<<:828' \' &GR4B:83 3 ?920' 8. 25.2' 49' ; :9E2 ; 253'
428' +9 428' 23' 428' +: 8' 42' +29B' <B288 :5 ' # 6& 6' $9'
'B <<:B3' 9A' +: 8' 49' ; :9E2 ; 253' 428' +9 428' 6
- ' (! ' 4 ' ' 4 + , ' ; :3' 53B:49 3'
< B' 5 2+' 2B5:9++ ' Q B 3N' 4&=R4B:4R5 ; ?92/0
3' # (+$ ' Q e B:0N*+G*\3B \&+0' '
2B ; 2' 42' <=R8 ?92' :9B 538' 4+2.3B ?928' 2G32<98'
\' & 42' 42' < +28' \'2 9' :9' \' + ?9 4280' 25' :<<:8 3 :5'
E2.' +28' .:9B 538' 3=2B ; : 2+2.3B ?9280' LL' G +:28GR*
4B:*4+2.3B ?9280' < +28' <:B3 3 E28' 4 ; 52' JB 542' 452B*
J 2' 23' 93 +28' <:9B' &98 J2' ; 24 . +0' 3
' ' 4 ' 7' + , ' D
j' # (* # ' Q *4B:* 5*8 e *+:*
8* /0' ' ' 2B ; 2' 42' ; \42. 52' 9 ; 29B' <B:49 32'
< B' =R4B: .4<= +2' 5' 4 3' 988' =R4B25 .\<= +: .\+20
' $ ' 4 ' " *
3' # (' Q '4B:*3 2&B&/0' 8' ' 583B9 ; 253' \'
42' 49?92+' 3B: 8' <9' ?9 3B2' + 3B28' 42' + ? 420' B2U*
49 38' 25' <:988 \B2' 0E:R' 9 0' 0' B2 ; <+ *
.2530' <:9B' 952' G +52 3 :5' < B' 98 :50' +28' 429A' :9'
3B: 8' =2.3:+ 3B28' 4&2 9' <:532598' 4 58' 952*G J5: B2'
:B4 5 B2
' ' ! :3' =RGB 420' :B ; 2' 42' 4 ' 23' 49'
+ 3' ' <:B32B' ' 94B 3' 4 B2' 4 4
3' # (($ ' Q *4B:* 2*BB:*8 * *
5 *\&/0' 6' 2B ; 2' 42' <= ; 2' < 42' GR4B: 2BB: .R *
5 ?920' . 42' .:<9+ \0' <G3259' < B' .3 :5' B . <B:?92'
49<R 59B2' B:9J2' 42' 2B0' "2' & . 42' <=+:BGR4B ?92' 23'
42' B23=2B
3' # (> 0' # ($ 0' (2R*
' Q
j' # (' Q *4B:6 9*@&/0' :4R $9 ' <= 882' 3G5*0'
; 4 32' J2538' =R4B: 9J28' ! 8 2' =R4B: 9J20
' ' ! :3 =RGB 480' 42' & "#!'b0 0' 23' + 3' ' / ! , ! '
; 233B2' 25' ! 32
' # ($ ' Q 4 X*J 0+&/ ' e 3' X9<4'
' 42' 2 9
* ' (! ' T +' (/ 200' 3 < 0 ' 2 90' 23' (' + 3*

H ; ` A ,$ G ' 0$) . 1)<) :7 +: ' M ' . '
M6. J$ ' Q 1 QM ' $ $ ' .: J$
' ' 9 A 4 ' Q C7 I
' $ 9 =$) .$1) ( ) $1 7 Q' . '
. ' J4M ' ' .: ' J1 ' ? $:$M 4< ? $ '
$M < ' .:EQ. 1<
S' # ' 4
; ` A N X ' a$(. 1)6) :7 c' ' ' $ ' M ' . '
J4M ' 1 ' $M 2 . $,4 M . # (' 2 1M4$)
$ 1 ' [J 1#Q< ' ,1 M ' ' B ' .$' $
< [EQ. 1<6 ' ' ; Q. 1<f ' 2, . $. J'
EQ 2 1<6 ' J1M4$ ' I J . ' 1 , ' $J J'
' ; Q. 1< ' 4$J 41 1. $' . ' 2 ' , . J1M 1 $-
$ ' . ' 2 ' E1 $2 ' ' 2 ' 4 2 ' ,1 M ' '
< . $ ' 2 < # . ' 2 $ < ' K' ' 2 ' 2)
< < ' . $ $ ' 4Q. 1< EQ. 1<6 ' 4$J 41 .
? $ ' . J2 $ (' ' H ; Q. 1< ' 2$? $. .$'
$ < [' 2$? $. M.2 < ' 1 ' . J2 $ < ' ? $ 1'
J1M 1 ' .: 2J112' ' .: J ' . ' 4 1 E$ '
? :1 ' ' 4 .1 6' ' ? : ' 6 $' 1 ' 2 J M '
21 $42
$ ' 4 ' ' 2 ' ,,2# '
; ` ; N X ' 0$) (2 1) . 6 3. 7 " ' " '
.:EQ. 1<. ' c $ J1M4$ ' I J 1 ' EQ. 1)
< ' ' 4 J ' EQ. 1< . 4 J ' <)
$? ' . ' 2 ? 2 ' 4Q. 1< ' ' . . 1M$
J1MM ' . ' 2 ' J 2 ' J1 ' < 2 '
$ J'
; ` CA N X A' a$) . 1) ,$M. ' P ' Q2 E ' ' ,
JJ ' < I ' ? .2 Q 2 4 ? ' $' M
:4Q. 1< ' # 1' ' A ' ' ' J1 .$ $1 2'
:EQ. 1<. $:EQ. 1<. $ 7 / ' ' M ' .
J4M ' 1M4$ ' I J EQ. 1<6 ' :EQ. 1<.
D ' J1M4$ ' I J 4Q. 1<
' - ; ` A N,$X2 ' 0 1) .) $ 7 ' E.1 , '
2 ' ,1 M $1 ' . ' M ' .: ' . ' ' 1 '
<214
% $ ' 4 ' ' 2 ' ,,2# '
' ; ` A N P N ' 0) . 13 .) -2 :<$ 7 '
. ' ' # . . ' 6 2 ' , J ' . ' <2 4
- ' (! ' 4 ' B
i) ; ` A NP ' 0$) . 1 <21) :2 ' ' M ' .
4$ <$ <Q 1 QM ' .1< 1 $2
' ' ' 4 ' B 44 ' 2 <
H ; ` A NX X ' 0$. 1<4) 1 M1 $ 7 *
' ' . J1 I $ ' 2 ' 1 J ' J 4. ' M1Q '
.: ' 4 <
$ ' 4 ' ' $ E ' ? $J1 2 '
; ` A NX ' 0EQ) (2 1<E) 1) [$ 7 ' ' .
' # . ' G ' 2 '
' # $ ' 4 ' QI J J1 $ 1
; ` A NA C ; G' 0 . 1 < ,7 ' _2 $? $
' I ' . ' EQ. 1< E$ ' &Q' ,$< . ' $ ' 4Q)
. 1< E ' L
M' # $ ' N 4 ' ' Q > > . ($ '
; ` A NG C ' 0$) . 1 < ,2 7 ' '
J $' $1 ' . ' # . ' > 6 2 ' , J ' . ' <214 '
(K' C $J 2$6 M ' J$ J ' ? $ $< ' ' M '
' 6 1 $ ' 2 ' M J1MM ' 2 ' < 1< 4$'
$< ' ' J1 ' 2 ' ') 44. ' G$< 1 2 '
1 J ' < . 2 . ' 2 2 ' ,$' 1MMM ' '
$+WT' 1, ' 1Q 2 .:4Q. 1< 4$ ' . A114 ,1
1X X ' = 4
X ' # $ ' 4 " '
; ` A NA C ; c ' 0$) . 1)<),2) 6:7 6' c $
$ ' 6 EQ. 1< E$; ' 4Q. 1< E$? '
1 , ' M $ 2 I . ' #0("#%" (' M1 $2 < 1 . < '
' M4 ' . ' I
B # (' 0$) . 127 ' M ' . ' E 1$ '
X1M 1 1 ' 1 ' . . $< ' 21 ' 2 ' J1M 1 ')
' $$# M$ $ +
' ' 1 ' , $ ' . ' 4 ' 2 ' M1.6 2 '
*
; ` A P ' 04. 1) 2 7 ' I' M ' . ' E)
M J$ ' X1M .1 . ' # 2$? $. ' $ J121 ' ? :1 ' 14)
$ ' ' .$ $2 ' $. ' $: ' ' . ' . ' ,2 ' (1
1 ' ' .: ' 4 J ' 1M $? '
' ' 4 ' ' ' ,$ 2 ' ' 2 $ ' , '
$.$? ' 2 ' 2 ' .: ' 1 $1
; ` A P G ' 0$) . ?)2),) :7 ' ' M ' .
E M J$ ' X1M .1 6 # $ ' ? ' 2$)
? $. ? $ 2 ' . J$1 ' . ' - ' ' .
4 J ' I < 2 ' 1 ' $M $
; ` A P ' 0$) . 1) 7 ' ' M ' . ' E M)
$ ' .$J M ' 2$? $. ' , M. ' .: ' ' . ' $ J$ '
M6.$J M # ? $Q ' $' ' 1 2$
; ` A P N ' 0$) . 1)21) $ 7 = ' C $' . ' E$ '
1$ ' 2 ' ? $ $' . ' # ' . ' 2 ' .$,,)
J
' # $ ' 4 ' ' 1Q1R $. '
; ` A P N c ' 0$) . 1)21) $ 6:7 6' c $ '
1 ' 6 4Q. 121<$ ' P ' 2$ ' EQ. 121<$
? 2 ' I ' J1 J ' 2 ' # M$. 2

' # (' Q *4B:*+:*J=&/0' ' ' 2+<' ?9 '
8 +0' ?9 ' 2582 J52' &GR4B:+:J 2
3' # ((' Q *4B:*+ * /0' " ; ' 2B ; 2' 42' ; 0'
5\B +:J 2' $9 ' 82' 4 88:93' 4 58' 2 9
- ' (! ' K "#! ' 23' S9E .0' 8:+9G+2
' # (! ' Q *'+B:* ; 5*8 2/0' 80' ' B3<B*
32549' 4:' <B24 B2' E25 B' \' 42' 42' 2 9 ' ' 5'
3B:9E2' 988' GR4B: ; 5.2' 23' =R4B: ; 53 ?920
- ' (! ' K "#! ' ! ' +289 A2' - (
3' # (! ' Q e B: & ; 5*08 5/0' 8 ' ; ' 2+9 '
?9 ' <B 3 ?92' =R4B: ; 5.@2
' S 6 8' 93B28' 8253' 5: ; ; \8' GR4B: ; 5*
. 2980' < B.2' ?90' +8' 42E 5253' < B 2 90' ' A A0' 8 '
3' # (! ' Q *4B:* ; *5 2/0' 6' ' 0 2B ; 2'
42' ; 242. 520' 4+ B2' E2.' <25.= 53' 42' 82' <:R2B
]' :+R4 <8 20' 8: ' 2A.288 E2
' ' K "#! ' 23' ; :532
3' ?U , - < ' Q *4B:* ; *\ *5 *\&/0' " ; '
+' 2 9' 283' 2 ; <+:R22' .: ; ; 2' ; :R25' 42' 3B 58 ; 23*
3B2' + ' <9 88 5.20' <B2882' GR4B: ; \2 5 ?92
' K "#! ' 23' "(- =7
?U - @' Q *4B:* ; \+/0' 8' X ' B29E J2' 3
4&2 9' 23' 42' ; 2+' ' :5' 3' :54B2' +2' ; 2+' 4 58' 4 A'
:9' 4:9M8' : 8' 8:5' <: 48' 4&2 9P' .2332' 8:+93 :50' 5&*
3 53' < 8' 898.2<3 G+2' 42' 82' .:582BE2B0' 82' <B2< B2' 9'
: : ; 253' 4&\3B2' G920' &@' #R4B: ; 2+' E 529A0' GR4B: ; 2+'
?9 ' ' \<B:9E\' 952' 28<\22' 42' 2B ; 253 3 :5 ' \L' 2B ; 2'
42' <= B ; . 2' ?9 42' 8 ; <29A' :B ; \' 4&2 9' 23' 4 '
; 2+P' ' JB ; ; 28' <:9B' 8: :' JB ; ; 28' 42' + ?9 42
' ' 'B8<:<2' 0' 42' V %<: ' 2 90' 23' <2S 0'
; 2+
' # (! ' Q *4B:* ; \+*+\/0' 80' 3G' 2B ; 8' 42'
<= B ; . 2' ; ; ' J\5\B ?92' 428' ; \4 . ; 2538' <B ; \8'
4&=R4B: ; 2+' 23' 42' < B3 28' 2A3B .3 E280
3' ?U , - - , ' Q *4B:* ; *3*:*B&/ 0' ' '
2B ; 2' 42' ; \3\:B:+:J 2' ! \3\:B2' <B:49 3' < B' 2 9' '
\3 3' 42' E <29B0' 42' G?9 4L' :9' 4:' J+ .2' 5' 4 3'
988' ; \3\:B2' ?929A
' 4 ' 23' F '
' U - , ' d *4B:*B:2*3B&/0' ' 583B9K
; 253' <B:<B2' \' ; 289B2B' \< 8829B' 42' + ' .:92G2'
4&2 9' ?9 ' 3: ; G2' .= ?92' 55\2' 89B' + ' 89B .2' 42'
+ ' 32BB2' 25' 95' + 29' 4:55\0
' K "#! ' 23' < A<: 0' B:889B:0
(! ' Q B:* ; *3B&+0' ' 2B ; 2'
42' ; \42. 520' #R4B:< 8 2' 42' + ' B: 3B .20' .:+2.3 :5'
4&95' + ?9 42' 8\B29^' 4 58' 93\B980
' ' 4 ' 23' < 'A< 0' ; 3B .2'
?U , - , * ' Q *4B:* ; 2*3B 2/0' ' ' . 25.2
?9 ' <<B254' \' ; 289B2B' + ' 4258 3R0' + ' E 328820' + '
:B.2' 428' + ?99+280' 230' < B3 :9+ \B2 ; 2530' 42' 2 90'
:+:J52' :54 0' 4 58' 8:5' 95 E2B8 320' 25' 87"0' 9 2'
.= 3B2' 42' <B: 288298' 4&=R4B: ; \3B 2' ?9&2+2' + _'
4:55 P' +2' 5:5B' 4&=R4B: ; \3B 2' \3 3' 5:9E2 9' 988'
G 25' ?92' + ' <+ .20' 23' 95' 23' 93B2' B <<2+2B253' 3:9*
@:9B8' + ' ; \B:? 32' 42' .2+ ; ' ?9 ' 25' ' B2549' \3 *
G+ 882 ; 253' ; \2288 B20' & ' 2 ,
V' ' 4 '
3' 6 < ' Q *4B:* ; *3B3*\&/0' 6' $9 '
<< B3 253' ' &=R4B: ; \3B+2
3' 6 ' Q+*4B:* ; *5*B 0' B 4&/0'
" ; ' $9 ' << B3 253' \' 952' 2 9' ; 5\B +2' 4' 3B 32*
; 253' GR4B: ; 5\B +0
' ' 4 ' 23'
3' (! # ' Q e B:5* * /0' @' ' 9 ; 29B'
?9 ' 82' :B ; 2' \' &: ; G + .' .G2M' ?9 2+? ' ' 8. 3 ?928
@ 9 ; 29B' :B ; \2' < B' 95' ; \' 42' 8\B:8 \0' 4 58' +2'
8 .' 4&952' =2B5 2' : ; G + . +2
- ' (! ' 4 23' \<' :S @0' 5: ; GB +
(! (' Q ! B:* ; :/0' 0')' 2B ; 2' 4&253:*
; :+:J 20' : ; 42' .2B3 58' 4 <32B28" 4253' +28' + BE28'
E E253' 4 58' 2 9
' ' 3(! ' 4 ' 23' <9+ 0' ; :9.=2'
3' ?U - ! 6 - ' Q 4B:*5* BN*M&/0 0' ' 2B ; 2'
42' ; \42. 52' 83258 :5' +2532' 49' G 88 523' 49' B2 50'
< B' 952' .. 9 ; 9+ 3 :5' 4&X 520' ?9 ' [\89+32' 42' 5*
32B.2<3 :5' 42' 9B232B20
' 4 ' 23' E\<<: ' B2 50
3' # (' Q *4B: ' 2* :*B 2/0' 8' ' 2B ; 8'
42' ; \422 5 0' R5 :5R ; 8' 4&=R4B: B :5
' ' 4 ' .25 0' 23' <:<: .0' ?9 ' <:B38'
(" ' :E B2/
' (' Q # B:*<8* /0' ' 0' 2B ; 2' E5+*
J B2' 23' 42' <+ 8 532B 2' 2+9 ' ' 35 32' *+28' ; + K
4 28' < B' ' 4R4B:3G\B < 2' : . ' +28' GR4B:< 3G280' 5:96'
2+8' 5E253 :50' \.2+2' 4:' B 2885 3 ' 2 ; 540'
0' A ' 0 , ' 0' #
3' # (' Q *4B: *< * 2/0' ' 2B ; 8' 5:5'
8 ; <+:R\' 25' ; \42. 520' ; +' \ 3P' +' 8 J ; 2 ; 3' +28'
; 4 28' 42' 2 9P' +:9' 2 ; <+2 2' E9+J B2 ; 253' < : ; '
4\8 J52B' +2' 3B 32 ; 253' 4 58' +2?92+' :5' . : ; G 3' 22B3 '
522' ; + 4 28' < B' 5B ' 2' 42' 2 9P' :5' 4 30' 25' ; \42',
. 520' GR4B:3G\B <293 ?92' :9' GR4B:3G\B < 2' c .' 3: ;

A

G 53 4 ' = 93 4952 ; :53 J52 ; :5 GB E2 B 2886 5 3M 82 GB 82 3B: 8 .4328 23 ' 5E2532 =R4B:< 3= 2 228+*'*4 B2 B3 42 J94B B +28 =9 ; 52 E2.' 42 2 9 + B2 ' #" '0 7#! ' "

' 'K "#! ' 23 .4N:h ; + 4 2

3' ?U , - 'Q*4B:*<4*B42*M/ ' ' 2552 42 ;242. 52' 929B 2A.288 E2

' 'K "#! ' 23 3 :%@Q5W @ + 882 ; 253

j'5 # 'Q*4B:*<4*B *\ B*4/ ' '

2B ; 2 42 ; 442. 52' #R4B:< 8 2 49 <2B . B42

-' , - 'K "#! ' # (#"

3' # (# 'Q*4B:* *5/ ";' 2B ; 2 42 ; 54B +:J 2' $9' 283 3B 58+9. 42 4 58 2 9' 2BB2 =R4B:<= 52' L@ ' ' : ;' 4952 < 252 8 + .2982 ?9' 283 3B 58+9. 42 +:B8?92+2 283 ; G G42 42 9 283 :< +2 =R4B:<= 52 E B 234' 4:< +2

-' (!'K "#! ' 23 ' +E2 E GB +2B

j' # (# 'Q*4B:* *4/ ; ' 2B ; 2 42 M: +:J 2' : ;' 428 82B<2538 ?9 'E E253 4 58 2 9

' (!'K "# ' "% R42' ("'4"/%'

3' # (# 'Q*4B:* * / ";' 2B ; 2 4 4 .3 ?92' $9' ; 2 2 9

'# 9 '$$% #'* ' "% G4TO*3' 0 + -

(# 'Q*4B:* :*G/ ' ' 23 ' 2B ; 2 42 35442. 52' 2+9 .2+2 ?9' '+28 + ?9 428 25 = :B' B29B 23 < B 2A3258 :5 . : ; ; 2 =:BB29B 428 + ?9 428 283 95 8R ; <34 ; 2 42 + ' B J2 25B J2>I' 42:* 3 E2 ; 253' 5 ; + 42 =R4B:<= :G2

' 6' 6 %<:Q<NN:Z" 42 3 <: 2 9 23 '+: 83E .B 54B2

(# 'Q*4B:* :*G 2/ ' ' 2B ; 2 42 ; 442. 52' #:BB29B 42 2 9 23 428 93B28*+ ?9 428 , +2.3 :5 ?9' 82 B25.:53B2 4 58 428 . 8 ?9' 5:53 B 25 42 . : ; ; :5 E24 + ' B J2' G98 E2 ; 253 + ' B J2 B54 ; 2'

-' # 'S 68' 29A ?9' 283 53 ; :B48 42 .= 258 25B J28 3: ; G253 25 =R4B:<= :G .

' (!'' '(4*4*#-0 D.*8' X

j' # (# $ 'Q*4B:* *G *\/ ";'U ' ' B <<:B3 \' B=R4B:<= :G 2' 28 . . 42538 =R4B:<= :G ?928' b ' Vq 6

3' # (# 'Q*4B:* :*B/ A"; ' 2B ; 2 4 4 . 3 ?92' $9' .= BB 2 4< 2 9 :9 42 + ' 8 B:8 3 ' 8 82 9A =R4B:<= :B28 +28 3B .=428 428 <+ 5328' D

-' 3(!' R4B: 23 Q<:< . ?9 ' <:B32

3' # # 'Q*4B:* :*8 * / ' ' 2B ; 2 42 ; 54B +:J 2' =:8<= 32 . : ; G 54 E2.' 42 2 9

' 'K "#! ' 23 &! &

3' # (# # 'Q*' :* :*8 9*B/ 8' ' 2B ; 2 42 .= ; 2' : ; G 5 8:5 4=R4B:J452 <=:8 <=:B2 E2.' 952 G 82' bU

' 'K "#! ' 23 &! &7#

(5$ 'Q*4B:* B *\3 *\/ ";' 2B ; 2 4 4 .3 ?92' ; <2B ; 4 G+2 ' 2 9' D

-' (!'K "#! : ' 23 << 6 3 4"?9' 2 ; <4:=2

3' # (# # ! 'Q*4B:* 3 +* ; 2/ ' 2B ; 2 42 ; 442. 52' #R43:< 8 2 42 :2+' 0

' :'K "# ' 23 4< :$2<4.0 .2 +

3' Q ' D-@#'*@$%*@'-@[1^' ";' "'+"#" 26-+-"' 8/*/8+" #" $&!*'68#'-,!"

= ' +<4B4 023<=3= :B2

3' ?U , - .?U@@ 'Q*4B:* +*+42/ ' ' ' : ;' 4952 ; 52 42 <+ 5328 443 .=42 448 G:<B J 5428 ' # (# (' Q *4B:* * :*84*+/ ' ' ' 2B ; 2 42 .= B9BJ 2' #2 ; 2 ?9' . :53 25342 2 9 23 49 J M

-' # 'O !(' 1-8 8 0 #!' ."/% "% #" 1"0!' "/K ("+;&" U#0/(&0 6" +-" #"(;*!'("(E' "&&" 4'"/#'0 &" /*+' #"(#"!:' "% (" /*+ + "'0 68#'*468(*2"&" ' +*' %%

' 'K "#! ' K!' ."/%' "% :HO/' 6"+-"

3' # (# ('Q*4B:* +* / ' ' + 532 ?9 'E 3 #0/(1"0!' "%" 40/%" "(% !/' 68#'*468%" NO ! 7*"(, !-82 +*/%'"/% #0/(&"("0!:' #*!2"(*!' (0 428 *!' #0/(&"(&-"*:' -/*/##(' L #9"2%-."+"/%' &0/%"(68#'*468%"(

' 'K "#! ' 'b ; , !5' <+ 532

3' # (# (# ' Q *4B:* +*3 :*JB * 2/ ' ' 28.B <3 :5 428 =R4B:<=R328

' ?'K "#! & ' "% 84#24(-.' ##2'-'"

' # (# ('Q*4B:* *3 :*+ :*@ 2/ 8' ' # 83: B2 428 =R4B:<=R328

-' (!'K "#! & ' 23 S4B: .3B 34

@# (' Q *4B:*< *<2B/ ' ; ' 2B ; 2 42 G:3 5 ?92' + 532 5: ; ; 42 988' L^ EB2 42 9 23 .9B J2 ! / ! '& "#! # ' +

' 'K "#! ' 23+2+ 3' #'<: EB2 6' . 982 49 J:43 3B28*<: EB4 42 .2332 <+ 532 428 ?9:5 25 ' ; \.=2 952 29 +2 :9 8 ; <+2 ; 253 428 ?9:5 <:B32 '8 'G:9.=2 95 4: J3 ?9 '25' '3:9.=2

($ 'D?'*@4-@[1E' ";' "'+" #" +H "@

. 52' $9' 283 ; + 42 4=R4B:< 8 2 'L 9G83 53 E2* 5253' 5 =R4B:< ?92' 52 =R4B:< ?92

[-' # A5 6 8' B +2. =2B 2 8' +28 < ?92 $9 +'25' 83 ; 3 3B239 3 R4B:< ?92 ' . ! ' M ' L AE6 8 4* E 82M E:98 3:9328 J258 42 <B 3 ?92 ! B. = 58 4 BJ253 2A J29B8 42 5 5.2 $9' 25' 28328 42E25 8 R4B:< ?928 9BJ2B R:98 9+3 E+EB2 < B :B4:5* 5 5.2 ' ' :48 28 ; 88 6 "

-' (!' TB4<: ; 3A4.0 42' QUF<X+U =R4B:< 8 2 59 'L 42' h N< ' 2 9 QE<R' 6 G'

('Q*4B:*< * 2/ 6' ' 2B ; 2 42 ; 2K 42. 52' ..9 ; 9+ 3 :5 42 8 B:8 34 4 58 952 < B3 2 49 .:B<8 Q. E 32 :9 3 889 .2++9+ B2/' :98 3: ; * G2B2MI' 42 + ' 4R' 532B 2 4 58 =R GB:< 8 2 ' 23 42 =R4B:< 8 2 43 ; 8 + ' <B E 3 :5 42 + ' E 2 ! :3' K

/ ' M 2' L #R4B:< 8 2 B3 .9+ B2 E:R' 3 + *

' '#R4B:< 8 2 25\R83 2 28< 2.2 4=R4B:< 8 2 :=' +28 2 9A 8:53 B25 2B ; 228 4 58 952 <:.G2 :9 8 .' < B3 .9+ 2B' L#R4B:< 8 2 42 + ' 3B: ; <2 :G+ 32B 3 :5 4952 :9 428 429A 3B: ; <28 93 B 528 E2.' 4 83258 :5 < B +2 ; 9.98 ?92+28 . :53 59253 ' 8 .B 32B' L#RK 4B:< 8 2 E253B .9+ B2 <B:49.3 :5 42 8 B:83 ' 25 ?9 53 32 3B:< JB 542 4 58 +28 E253B .9+28 : B GB 9M B3 .9+ 2B2 ; 253 4 58 +2 3 ; J J2 :B4 5 B2 8 . 32' ' J' 23 E9+J B2 ; 253' 52 =R4B:< 8 2 42 529' ; : 8 952 JB:882882

' ; ' ; ' . ' J1 'I ' ' M1 $ 'UM1$' 7 '2 'M: ' ' MM ' M 2' '< I' .'< ' , M ' '.:$. 1 $$'2'I 'M 2 ,2 , &' ' # 'W"' '#M' ',$ 'J1 Q [I ' $I ['M' M 2 .$ 'B' $ 1 [2 $.:$. 1 $ $. -' " 7 N' #$I ' 'P ? 2A1, ? $ 1$ $, 'UM 2 . S .: 'M 2 .$' 1MM 'Q 1) $J ' !# 7 ' . 7 ! ' # #I$ '8' 3:' 1Q ' .: <2 ' 1$' . ' . ' 'M . .$'$ ^ J 42 ? $ 1$ EQ. 1 $ ', 1 1 , & ' $$;Q. 1 $$' E M$. ' ' I ' 1 (' $JE '1 ' ' < 2 '1' - ('1

+29. : <G 2< ; :8 ' +*' %%

' 'TB < @3 5 P =R4B:< 8 2 42 4F<W"0 ; N ; 2' 8258 ?9 'E 253 42* : <2

H ; ' A C X ' 0$). 1) $)[$) :7 = *' M' .' JEM ' 4 J '1< $? ' ? $ .1$' #' < ' . '2 ' M $E ' $ M$ 1 . ' ' ? :1' 1 I ' . '2 ' JE M 'M1 4$. ' . '2' 2 I ' ' ' 1 ' . '2 ' 1(' 1 M . ' 'M M) ' L -

-' (!' 4 " '23 + ' 5 +2 '?9' 54 ?92

5' <B 5: <2

(! +$ 'h *4B:?U529* ; 63 43/0 4@H' 2B ; 2 42 .= 5 2' 9E2 =R4B:<529 ; 3 ?92 << B2 * ?9' 82B3 'B2.92 ++ B 89B 952 59(2 42 9 +28 J M 58:+9G+28 4 58 2 9' 6

K "#! ' ' - 7 =7

3' # (! # S' Q *4B:*<529* ; :*3:* 3 \8/ 8' @ ' 2B ; 2 42 > 42. 52D 529 ; :3=:B A' . : ; <#?9 ' 6 ' < 5.=2 ; 253 42 + ?9 42 4 58 + ' <+ EB2

- (!' 4 '23 " ,

3# ('Q*4B:*<:*3 '06' ' 9E29B 42 9 .2+9 0?9 '52 G: 3 ?92 42 2 9

' 'U# # ' 42' :8<: ' 2 9 23 A:E5^0 G9E29B 42 A E23E G: B2' ' ,

3' # (' Q+*4B *<3 *B *4 2/ ' '0*)' 2B ; 2 42 G:3 5 ?92' R5:5R ; '42 B= I : . B< 28

' 'K "#! ' 23 X32<+3 :9J B2

,' # (($ 'h *4B:*< *B *\/ ";' 2B ; 2 42 J :+:J 2' :+. 58 =R4B:<RB ?928 E:+. 58 ?9' + 5* .253 42 2 9 23 49 29

-' (!'K "#! ' 23 A <0 29

3' # ($ +B B 'Q*4B:*\ *9: 5/ ' ' 2B ; 2 42 .= ; 2' :B<8 :G3259' < B 4 83 ++ 3 :5 8 .=2 42 . 42 ?9 5 ?92

' 'K "#! ' 23 =7 - ! -

j' #D(3+ + ' H *4B:*B *.= 8/ 8' ; ' 2B ; 2 42 ; 42. 52' #R4B:< 8 2 49 . 5 + B .= 4 2G'

' (!'K "#! ' ' # (&

3# (# ' Q *4B:*BB 2/ ' ' 2B ; 2 42 ; '2. 52 :93 :9+2 ; 253 +253 23 .=B:5 ?92 495 + ?9 42 ?929A' L B2 ; 2B 3 3 42 :<=3= + ; 2 2JR<* 3 25520 4 58 +2?92 + R' '95' . :9+2 ; 253 42 + B ; 28

-' (!'K "#! ' 23 . :9+2B

('Q*4B:*8\ :*</ ' ' L 6 2+9' ?9 <B 3 ?92 B3 42 B2.=2B.=2B +28 8:9B.28 +28 2 9A' 8:932BB 528' L 6 B3 .9+ B2 ; 253' 2+9' ?92 :5' 89<<:82 E: B + ' .9+3 ' 42 8253 B +28 2 ; 3 :58 428 2 9A 8:932BB 528

'# $ '- 1& # $1+ . ' ' &#1)

$, I # M$

('Q*43:*8\ :*< 2/ 6' ' L 6 B3 42 B2:G2B.=2B +28 8:9B.28 +28 2 9A 8:932BB 528' 6 B3 .9+ B2 ; 253' .9+3 ' ? 2 .2B3 528 J258 <B 3254 53 E: B 42 8253 B +28 2 ; 5 3 :58 428 2 9A

8:932BB 528' 6 B3 42 < :5:83 ?92B +28 ; 3 :B28 ?929A 4 <B28 2A< B 25.2 89B3:93 25 ; 2B

-' (!'K "#! !

3' # (# (! $ E:R' 6 ' 6 *<

3' # (' Q *4B:*8 *+ *\ * / ' ' 2B ; 2 42 ; 5 B + :J 2' + . 32 ?9' . :53 253 42 2 9 6 3 3 42 . : ; G 5 8:5

' 'K "#! ' 23 (

4 3' # (3 S ' Q *4B:*8 *+ *82 82=* M+@' ";' + 2B ; 2 42 5 5 +:J 2' $9' . :5+ 253 4W 2 9 23 42 + ' 8 + .2' b

' #R4B: 238 .29 8

3' # ($ ' *4B:*8< *B:*+ *\/ ";' 2:52 42 .= ; 2' 2+42 =R4B:8< B:+ ?92 5: ;' 4:55 '=+' 9 +2'E:+ 3 +2 2A3B 32 428 +29B8 42 + '8< * B229+ ; B2' , 2

($ 'Q*4B:*83 *3 *\/08 ' ' B O B3 2 42 + ' ; . 5 ?92 ?9' 3B 32 42 ?9 GB2 428 + ?9 K 428 428 . :54 3 :58 42 +29B ?9 + GB2 23 428 <B288 :58 ? +8 2M2B.253 89B +28 < B: 8 428 E 828 2+2 283 :<* <:8 2 ' =R4B:4R5 ; ?92' :98 +28 . : <8 E E 538 8:53 . : ; <:8 8 42 +2E 2B8 42 <:9+ 28 ?9' J<882=3 89 E 53 +28 +: 8 42 + ' ; . 5 ?92 42 + ?929B8 ?92 +28 +: 8 42 GR4B:83 3 ?92 :53 <2' 392+2 ; 253 . B* .9+2B ' AA E "C' L 6 ? " ; ' $9' 'B <<:B3 \' =R4B:83 3 ?92' B 2 ; .= 52 =R4B:83 3 ?92 +2 <: 88:5' 43 E: B ; ++2 <=25: ; 528 9 ; :R25' 4952 8 ; <+2 E288 2 6 'H - ' E ' L + 5.2 =R4B:83 3 ?92 E:R' W*+ 5<2 =R4B:83 3 K ?92 E:R'

-' (!PK "#! ' 23 =7 '

(# (# (* $ E:R' 3 # (# $

' ?:U -"#8 ?U? , ' Q *4B:*3 *\ * ; *3B/ ' 2B ; 2 42 <=R ; ?92' 583B9 ; 253 <:9B ; 289B2B + ' 32882 42 2 9

-' (!'K "#! :S 'E 32 23< B<:E ; 289B2'

3' # ($ 'Q*4B:*3 *\5 *\/ ' ' B* 3 2 42 + ' ; . 5 ? ;'?9' '<:9B :G 23 + ' 4 B2.3 :5 23 + ' . :549 38 42 2 9

' 'K "#! ' S ! * ' B3'

3# (# 5B $ 'Q*4B:*3 6 *<29*3 *\/ :9 ?U , - " * 'Q '4 :*3 *B *< 2/ '8' 2B ; 8 42 ; 42. 52' ! :42 42 3B ; 32 ; 253 428 ; + 4 28 8<2* .+ +2 ; 253 42 .2B3 528 ; + 4 28 .=B:5 ?928 < B 98 J2 42 2 9 B: 42 25' <<+ . 3 :58 2A3 B 29B28 4 E2B82 ; 253 ; :4 + 28

' 'K "#! ' 23 "# 7 =7 ' :9 &"# '

D' j' # (# ! $ ' Q *4B:*3 B* ; *\/ ";' $9' 'B <<:B3 ' 2 9 23 \' + ' .G +29B' :B J 52 =R4B:* 3=2B ; ?92 42 .2B3 528 B: .G28

& ' 'K "#! ' 23 << / .= +29B'

3' # ($ # CS' Q *4B:*3 *:*524/' ";' ' 2B ; 2 42 .= ; 2' . 48 =R4B:3= :529A . 42 4= + R' ' ; :@58 4=R4B:J 52 ?92 4 58 . 42 =R4B:3= :* 5 ?92

' ' :R' # # "$

I, # (# $ 'Q*4B:*3 *:*5 *\/ ' ";' ' 2B ; 2 42 .= ; 2' . 42 =R4B:3= :5 ?92 . 42 <B:* 49 3< B + ' . : ; G 5 8:5 42 =R4B:J252 23 498:9 ;

' 'K "#! ' <:9B & "#! / & ' 23 * ' 8:9 B2

3' # (# S' Q *4B:*3:*B \ /'a' ; ' 2B ; 2 42 ; 42. 52' #R4B:< 8 2 42 <: 3B 52 . :+2.3 :5 42 8 B:8 3 '4 ; 8 + ' . \E 3 '42 = 52 428 <+ EB28 :9 4 58 +28 429A . E 3 8 428 <+ B28

' U 'K "#! ' 23 &!# B

3' ?U - "*6 ' Q *4B:"3 * ; 4B/ ' ; ' 5K 83B9 ; 253 82BE 53 \' =R4B:3 ; 3B 2 23 . :58 83253 25' 95' + . :5' JB 49 '42 32+2 8:B38 ?9:5' R' <9 882 ; 289B2B 2A .32 ; 253 +2 E:+9 ; 2 42 2 9 8:9 ; 82' \' 2A< B 25.2 23 25 952 G9B2332 39G9+ B2 J +2 ; 253 JB 49 2 . :5325 53 952 8:+93 :5 495 42. JB ; ; 2 42 8 E:5 < B 95' + 3B2 42 9 4 83 + 2

-' (!' ++:3 8' ; + \ 3 ?9:5' 525' <253 4232BK ; 52B +28 + ; 2538 + 93 <293* 3B2R E: B J<:A .' =9 ; 4 3 23 h3 B< E ; 289B2

3' # $ 'Q*4B:*3 * ; *3B 2/ ' ' ' ; * <+ '42 =R4B:3 ; 23B2 <:9B 4232B ; 52B + '?9 533' 428 82+8 . +. B28 :9 32BB29A . :532598 4 58 2 9 2 ; <+:' ? '82 :542 89B .2 3 ?92 2 9 G 5.= 3 +:B8?9:5' R' E2B82 42 2 9 42 8 E:5 8 58 <B: 49 B2 ' ; :9882 49 G+ 5.= 88 J2 3 53 ?92 +2 8 E:5 5 ' < ' <B . < 3 ' + '3:3 + '428 82+8 . +. B28 25 4 88:+93 :5

3' # (# ! $ ' Q+*4B:*3 * ; 2*3B *\/ ";' $9' 'B <<:B3 \' GR4B:3 ; 3B 2' 2JB 8 =R4B.3 ; 2* 3 ?928

($ ' Q *4B:* +*\/ ";' 2B ; 2 42 ; * 423 52' R5:5R ; 8 4=R4B J:J92

' ' #:3 G B=8B2 23 ?9' ; B 32 4423B2 2+ . * b(<2X3A .' :9 NF<: 3A V 5283 < ' JB2: 23 8 + * 3 3 + 5 :B 3 < 8 +2 8258 4GR4B J:J92' 5

3B:9E2 & "#! (7 '4 58 G E 98 9329B423B 3 8. !
; ?928 ?9 '< B 33 E: B :BJ2 233B 8* ; :BJ '.2 ; :3
3' # ('Q *4B:*3 *3 /0 '8' 2B ; 2 42 ; 242
. 52' #R4B:< 8 2 42 :B2 +2 ; :R2552 :9' . E3 ' 49
+R ; < 5
-' (! ' - ;"# ' 23 : .0 Q B ^ B2 +2
' (! ' Q *4B:*3:* ; 2/ 8' ' 2B ; 2 4
5 3: ; 2' B:. 44 < B +2?92+ <:988 53 4 58 +28 B
32B28 42 2 9 ?9 3B 588942 < B <B288 . ; :5 5 +3B2
+28 3 8898 :5' 42 B32 +28 GB28 23 :5' 82< B2 +28 4 E2B8
:BJ 528 +28 958 428 93B28
-B (! ' K "#! ' 23 4 882.3 :5
3' # (S ('Q *4B:* 83*4 /0 8' ' 2B ; 2 42 .=
; 2' : ; G 5 8:5' 4 2 9' 23 4 95 :AR42 ; 43 + ?92
' ' K "# ' 23 !B "
('Q *4B9*B + 8' ' L ' 2B ; 2 42 .G ; 2'
: ; < 84 ?9 '5 283 5' J A29A 5' . 42 4 =R4B:JG52
23 4 95 93B2 . :B<8 8 ; <+2 5 :5' J M29A' =R4B9B2
42 8 :9 B2' L 0 :B5 4 :554 ' .2B3 528 =9 +28 E: + K
3 +28 32 +28 ?92 .2428 4 ; 5428 ; 4B28 42 . 5
+ 2 +2 23. '?9 '< B 88253 B489+32B 42 + ' . : ; G 5 8:5'
42 =R4B:J252 E2:' 95' B 4 . + +2 & - ! 6' +2
- - #- '23. ' b
-' (!' K "# : ' <:9B & "#! / - ' 23 + ' 5 +2
.= ; ?92 7# '?9' 428 J52 + ' . : ; G 5 8:5' 42 429A
. :B<8 8 ; <+28
AA+ @' 'Q *2* ; + ; *B :4R' :R # !
(' 'Q *4*5 R ?92+?928*958 8< B253 3 " 3:B3/
8' ' 9 4B9< 242 42 8 2 23 42 B ?92 ?9B ' '
G2 9 . :9< 42 B <<:B3 E2.' +2 + 9< < B 8:5' 5 39B2
2 B5 88 2B' ' 25B2 42 ; ; ; 4B28 . B5 88 2B8 4
J 3 JB 428 82+:5' 9E 2B
-' + ''' 8' # 242 283) G2832 ?9' 952 M
283 ; 8+28 23 93B2 2 ; 2+2 23 = G 32 28 . 523 2B28
8 G: ; 28 23 ; 5 92+28 . : ' 428 ; :B8 '
, # ' < ' "2' ' ; '
' B:E25. ' & - ' - - '' - 3 28< J5
3 + '3 : 93P 4 ' JB2 :4 E6 42 4P ' <:B2 < B
88 ; + 3 :5' 42 :B ; 2
b' ?U * 'Q *4*5 *42/ 8' ' , # ' 42 M: :
+: J 2 B:9<2 4 5 ; 9M 9?92 << B3 253 GR452
3' ?U -) " , 'Q *4*34* ; 4632 / f ' C ' R5:5R 2
<29 98 +4 42 <+9E : ; 43B2
-' (! ' T 8 :3 <+9 2 23 <2B<:E ; 289B2
' #pc Q ! 'Q *4 3:*8 \ :*< / 8' ; R5:5R ; 2
4 =R43: ; 43B2 ' ' b'
' 2E4.0 <+9 2 23 :M: 323E 2A ; 52B
b@*# ('Q * 2U '[#]' 2B ; 2 42 ; R3=: +: J 2
8' 442 82 42 + '8 534' L 0 2B ; 2 4 83B:5 ; 2' + *
5G32 34+28. :< ?92 42. :9E2B32 25' "F"7' ; b
-' (! ' (R 2 0 42 5& '8 5 25' 8 534 . : ;
< B2M +2 58.B 3 7/# ' 5) ; ' :B.2 23 +2 + 3
5 / ! ' 5 / !#
($ _ 'Q * 2*5 / ' ' B3 2 42 + ' ; 442. 52
?9' 3B 32 428 5J+28 6' 9 EB2 <:9B + ' . :582BE 3 :5
42 + '8 532 4 58 +28 4 4B2538 J28 +28 4 2B25328
. :583 393 :58 +28 4 4B25328 . :54 3 :58 42 + 'E 2 23
+28 4 4B25328 <B: 288 :58' 5. :B2 =RJ 452 283*2+2
; : 58' 952 8. 25.2 ?9 952 E2B390* 'A' '@ '+'
' #RJ 452 <9G+ ?92 2 82 ; G+2 428 . :55 88 5.28
?9' 889B253 + '8 534 428 <:<9+ 3 :58 . :58 42B42825
; 882' #RJ 452 <B: 288 :552+2 .2+2 ?9 . 5E 253
3 .= ?92 <B: 288 :5' L#RJ 452 ; + 3 B2 =RJ 4 2
5 E +2 .2+2 ?9 + . :5E 253 4 <<+ ?92B 9A 3B:9<28
42 32BB2 <254 53 + ' < A 23 25' . ; < J52 23 9A
=: ; ; 28 42 ; 2B 4 58 +28 E 882 A 4 58 +28 5 E K
J 3 :58 4 58 +28 B2+4.=28 ' L#RJ 452 B9B +2 . :5K
4 3 :58 42 8 +9GB 34' <:9B +28 J258 42 + ' . ; < J52
.< 53 6' +29B8 +:J2 ; 2538 6' +29B8 3B E 9A 9
35 2B8 9A 2 ; .0 23. ' #RJ 452 4 ; 5 83B 3 E2
< B3 2 42 GRJ 452 4:53 +28 <B28.B <3 :58 8:53 8:9
; 8284' 428 ; 289B2823 '428 B4J+2 ; 2538494: ; 52
42 4 ; 5 83B 33:5' L#RJ 452 54 83B 2+2 < B3 2 42
=RJ 452 4 32 4 ; 5 83B 3 E2 ?9' . :5.2 ; 2 +28 43
G+ 882 ; 2538 54983B 2+8' L#RJ 452 .4B4GB +2 B2J ; 2
_' 89 EB2 4 58 +28 +2.39B28 +28 ; 24 3 3 :58 23 +28
4 E2B8 3B E 9A <:9B 253B2325 B +28 2.9 48 532+
+2.392+28 4 58 +2 ; 2 +29B 43 3' L#RJ 452 ; :B +2
:9' =RJ 452 42 ; 2 <<+ . 3 :5' 42 + ' <GR8 :+:J 2 4
+ ' ; :B +2 23 6' 449. 3 :5' <9G+ ?92 23 <B B42' L 58
+2 + 5J J2 :B4 5 B2 :5' 4 3 8:9E253 : +4 ; :5'
=RJ 452 E: +4' + 'B4J ; 2 ?92 2' 89 8' ' 89 3 +
952 ; 9E 82 =RJ 452
-' # 'AE '8' ' . :5 32 ; <+ 3 :5' 428 . =:828 5:5'
5 39B2+28 << B3 253 ' + ' 82. :548 < B3 2 42 + ' ; N
42. 52?9' 82 5: ; ; 2 =RJ 52 ' :9' 4 323 ?92 3
. 982 ?9 2+8 3 8.=2 "' J 428 + '8 534' < B 98 J2
B +8:55 G+24232+28 .=:828] ' - #!"'
' 'T R 3E2 E 82 G 25' <:B32B
($ +5$+> 'Q * 2*5 * / "; ' L 9' 'B <<:B3
=' =RJ 452' L T' / ' ' ! 442. 52 <B482BE 3B .2' U 29
:8+34' 25' .2 8258 :5' 4 3 =RJ 252
' 'D / ! -
23' ' +? _ '

3' (! $! ' Q * +4*5 * \2* ; 5' / "#'
:5 :B ; 2 ; 253 9A <B 5. <28 42 GRJ 452
,' # (+ 'Q * 4*5 *83 / 8' ' ! 242. 5' ?9'
8 : . . 9<2 4 + RJ 252
j' # (! ' Q * *:*84*B * ; / 8' ' :32B 2
4 58 + . :9E2B39B2 42 + ?92+2 + 5 253B2 9 .952 89GK
83 5.2 59 8 G+2 4 + '8 532*
'# $ ' 8--'-2' (0-/ ' "% :#40! *5' 4*%"'-"
3' # ('Q * *:*+ :* 2/ 8' ' # 83: B2 42 + '
8 534 2 283**4 B2 428 .328 5:B ; 9A 42 2. :5:
; 2
- (+ ' T R +/^ 8 5 23 S:R:R 4: .3B 52
' # (' <B2 A2 ?9' 8 J5 2 =9 ; 42 23 E 253
49' 7 '"2' 684*5' 9B3 98 8' B 33 .=2 "' 0/ (2'-% 7/ '
4 :9 +R .8=: BB:82B 23 ; 2 ; 2 +2 + 3 5' &7 !#' <:9B
&7 / !#
j' # ('Q *JB:* * / ' ; ' < ' 2B ; 2
4 :B5 3=: +: J 2' ; +2 4 ' :B4B2 428 4. = 88 2B8
. : ; <B25 53 +28 ; :82 9A 5A?92+8 +29B8 +:5J928
; G28 <2B ; 233253 42 ; B.=28 4 58 2 9
' 'K / #! '23 <4AB .0 ?9' R 0 42 < E83E
+2B
3' # ('Q *JB:*G 2/ / " ; ' 2B ; 2 4 = 83: B2
5 39B2 +2' $9' E 34 58 2 9
' 'K / #! '23 <3: E 2
3' # ('Q *JB:*G *22/ 8' ' &' 2B ; 2 42
G:3 5 ?92' ; 4 952 ; +2 42 <+ 5328 84< B22428
$ + 'B 'N'
j' # (# $ 'Q *JB:*G+4* *B * \ / "; '
2B ; 2 4 5 3: ; 2' :549 38 =RJB:G+2<= B ?928
. :549 38 2A.B4329.8 42 + 'J 542 \ .BR ; +2' L B K
.28 =RJB:G+4<= B ?928 :B .28 < B +28?92+8 .28 . :5K
49 38 E2B8253 +28 + B ; 28 9*4288:98 42 + ' < 9< GB2
89<4B 29B2'
' 'K / #! '23 <S83< <:E < 9< GB2
' # (('Q *JB:*\ :*+*B / '35 2B ; 2
42 ; 442. 52' :+RB2 + ?9 42
K ' 'K / #! '23 (!A #
' j' # ('Q *JB:*+:* 2/ ' 'H 0 2B ; 24
4 .3 ?92' # 83: B2 42 2 9P 3B 32 89B 2 J 23 +28
+9 428' 6 2B ; 2 42 ; 442. 52' B 34 89B +28 +9G
428 49 . :B<8 =9 ; 5
' 'K / #! '23 S4R: 3B 34
3' # (! ' Q *JB4* ; 23 # (N ! 'Q *JB
; / 8' ' 2B ; 2 42 .= B9BJ 2' #R4B:< 8 2 428 G:9BK
828 ; 9?929828 8:98*.93 5428 < B .9+ GB2 ; 2<3 9
J25:9 42E <3 + 'B:39+2
-' (!' T(R<G. =9 ; 42 + ?9 42
UJ , - 'Q *JB:* ; ! B / ' ' 583B9 ; 253
42 <=R8 ?92 ?9' 8:B3 \' ; 289B2B +2 42JB4' 4G9 ;
4 32 3 ; :8<=4B ?92' + R ' 42<A 8:B348 4 =RJB: ; 2
3B28' 95' ?9' . . 982 =5 ; 4 34 8258 G+2 32 283
=RJB: ; G3B2 42 . 9889B2 \93B2 ?9' 3 . :55 \^3B2
+ ' ? 5+ 34 4 2 9' . :532592 4 58 B +:B8 ; G ; 2
?9 + 82 ; G+2 G8:+9 ; 253 82.0 32 283 .2 9' 42
5 2++ +L B 2A3258 :5' =RJB: ; 23B2 +2 <+98 8 ; <+2
23 +2 <+98 <<B:<B 4 <:9B 9J2B 42 =9 ; 4 32 42
= 42 .28 8:B328 42 :9B8 H: \' :5 3 4. +:B2 428
:29_I 2 283 95' :29' B: 4 ?9 :5' R' 53B:49 3 23?9 :5
R' 3 253 <254 53 ?92+?92 32 ; <8 +:B8?92 +2 Y9832 42
JB4 42 2= +29B R' 283 43 G+ ' '3' < ")
' / #! 23 # ; 289B2
3' # (3+ + 'Q *JB:* ; 4*3B *8 *34/ ' '
9 + 34 42 .2 ?9' 283 =RJB: ; 23B ?92 <B:<B 232
?9 : B253 +28 8: + 428 42 8 5 ; G2B 428 + ?9 428 E2.'
+28?92+8 +8 82 3B:9E253 25 . :53 .3
-' (! 'D / #! # =7
(! 'Q *JB:* ; 4*3B 2/ @' ' B3 2 42
+ ' <=R8 ?92 ?9' 8 : . . 9<2 42 4432B ; 52B 23 34 =9
; 4 3 ' 42 B + '?5 53 32 4 2 9' 25' E <29B . :532592
4 58 B :9' 4 58 95' J M ?92+. :5?92
' 'K / #! 6#
(! /M $3> H *JB:* ; 4*3B * / "; ' $9' 283
8258 G+2 9A = 5J2 ; 25384 G9 ; 4 3442+ B' HQ 9GK
83 5.28 =RJB: ; G3B ?528 89G83 5.28 898.2<3 G+28
4 2<B 9E2B 428 2= 5J2 ; 2538 <B:<:B3 :5528 9A 4 K
E2B8 42JB28 42 =9 ; 4 34 42 B 3 ; :8<=4B ?92'
' 3 3 =RJB: ; 43B ?92 ?9 53 34 <+98 :9' ; : 58 . :5
8 44B G+2 42 E <29B ?92982 ?9 95' . :B<8 . :53 253
' 'D / #! #
3' ! $! 'Q * JB:* ; 4*3B * \2*
; 5/ "5' 952 ; 5 GB2 =RJB: ; 23B ?92
' 'D / #! # =7 '23+2' 89 +A2 -
(# 'Q *JB:* :*G 2/ ' ' 2B ; 2 42
; 442. 52' E2B8 :5' 428 + ?9 428
' 'D / #! '23) MM PO' .B 532
(# # ! $ 'Q *JB:* 3 +* ; +* \ / ";
2B ; 2 42 <GR8 :+: J 2' $9' 82B3 ' =9 ; 2.32B ; +
' 'K / #! '23 M M24<42 .2 +
b' (N # Q *JB:B*5 *3 / 8' ' 2B ; 2 1
42 M: : + : J 2' B4B2 4 : 82 9A E+E 53 4 58 2 9
' 'K / #! '23 N<E3 : 82 9
3' # ('Q *JB:*8 \ :*< / Wb ' , # ' "

<=R8 ?92' 583B9 ; 3*3<B:<B2 \' B2 . :55 3B2 2A 8
325.2 42 + 'E <29B 4 : 9 4 58 B
' 'K / #! '23 :A: B. E 2A ; 52B
' # ('Q *JB:*8 \ :*< *8 *32/ 8' ' B:
<B 434 4 43B2 =RJB:8. :< ?92 54 92B B=9 ; 4 34
' (N 'Q *JB:*8 \ :*< 2/ 8' ' ; <+: '42
GRJB:8. :<2
' # ($ 'Q *JB:*8 \ :*< * \ / "; ' $9' '
B <<:B3 \' =RJB:8. :< 2' G82BE 3 :58 =RJB:8. :<
?928' Y
j' # (5 $ 'Q *+ B*.+ * \ / " ; ' 8<B 3
=R+ B.= ?92 28<B 3 95 E2B82 ?9 82+:5' ?92+?528
<= +:8:<+ 28 B4J 3 + ' ; 3 2B2 <B2 ; GB2
' ']BSB ; 3 GB2 23 4<[2X B2J B
3' # (2 Q *+4/ ' ' 2B ; 2 <= +:8:<= Q 92 2 ; <+:R2
?92+?92 : 8 <:9B 428 J52B + ' ; 3 2B2 <B2 ; GB2
' 'YU(G' ; 3 GB2
,' ?U@ 'Q * 4* ; *4 / "; ' 2B ; 2 4 253: ; : '
+:J 2' 582.328 =R+4 ; 428 582.328 4 <32B28 ?9' E
E253 4 58 +28 3 + 8 23 +28 = +28
' SB G:+8 3 + 8
3' # (+ 'Q *+:*G B3B *8 5
8 G*5 / 6' 2B ; 2 42 M: :+:J 2' 2 4 3 42 B2<3 +28
G 3B . 258 ?9' E B253 4 58 +28 3 + 8
']BSE G: 8 + 8 23 1 *
3' # ('Q *+:*G * 5/ ' ' : ; ' JB2.' 42 .2BK
3 58 <= +:8:<=28 54 258 ?9 E E <3 8: + 3 B28 4 58
+28 G: 8 8R' + EB253 ' + ' . :532 ; <+ 3 :5
' ' .4 > : 8 23 <:P E 2'
3' # ('Q *+:* 4*5 2/ ' ' :B ; 3 :5' 42 + '
; 3 GB2' b' 6
' ' (S5 ; 3 2B2 23 +2 89 A2
,' # (! 'Q *+:*3:* ; / ' ' " ' 2B ; 2 4Q25
3: ; 4:J 2' 25B2 4 =R ; 25:<3GB 28 ?9 \' 42 4 952 '
3 B 2B2 25' :B ; 2 42 8:+2 <B 3 ?9253 428 253 +28
4 58 +2 G: 8 < :9BR' 42<:82B +29B8 :89 8
']BS5 G: 8 23 . :<5 82.3 :5
@# (I ! ' *+:*M:* *8 ; / ' ' R83G #
<= +:8:<= ?92 ?9' 33B G52 \' 3 ; GB2 9 2 E 2<B K
; 3 E2 23 'GB2532' ' b
- (! ' + S5 ; 3 2B2 23 EB2*
" ' # (! 'Q * ; G5 4 <BG8 . 4G ; 2 23 = +23
9' AE56 8 G.+2 ?9' E29+253 ?9 : ' <B:5:5.2 $ '
4 93B28 <B:5:5.253 * ; 5 +28 429A <B:5:33. 3 :53
8:53 98 3G28 +28 <2 328 +2' :53 B ; 2B E2.' 428 B ; 28
25' 35' :9 25' :35/ ' L " : ; ' 42 + ' 4 E 5 3G
< +2552 ?9' <BG8 4 3 9A 5G.28' L]' B 2A325K
8 :5 23 4 58 +2 + 5J J2 <:G3 ?92 :9 G 2EG B J2
95 :5' . :5 9J +2' GR ; 25' ?9' 5:98 33 .=2 25'
952 93B2 ; +2 ' ' " ' 28 + ; G2 9A
42 =R ; 25 E 255253 42 8 +9 ; 2B 5' 0 ! ' "'
>2 52 42 ; ; 42 <+98 4 :9' < B3 3 .2 4G4 5 $9 54'
+ (:9 9 E:98 B2 95' =R ; 25' 42 ; ' ; 5 5' '
# * E N' =R ; 25' 89B 95' G<:9A 4:552 ?92+
?52 <9 88 5.2 ' C ' 5 " + ' E9 G' 9. :9<'
4 =R 5258 9.958 4 29A 52 ; 2 3253253 6 '
G+' ' ' : ; ; 2 + ' :+ :532 ' 2 ; 2 4G32B
; 52B \' =R ; 25' 4 # <<:+R32 ' 3' 5 F'
=2B2G25' 4 58 =R ; 25' 4 552 4:9.2 23 8 J2 <2B
82552 + ' . :58:+ 3 :5' 42 ?52+?92 5:9E2+2 ; +2
' E' 'N' 58' ?92 828 .= JB 58 =R ; 25' '828
<+ 8 8 ' 3 A' > ; 8 =R ; 25' :B ; 4 8258 +2
<+98 5: B 98< .2 2 =R ; 25 ?92 2 .B 58 5 GJ + '
+2 89<<+ .2 ' 3V[B' ' =R ; 25' 5 283 < 8
3:9 :9B8 253:9BG 4G + ; G2 9A 5' = 4B2 " 5
5' =R ; 25' 283 2' 8< 8 4 58 282+ E J''
#*4 ' 5 " ' 3 =R ; 25' +2 <+98 429A 283 3:9 :9B8
43:2 .= 52 ' '# "
5 ' = 8 + : 5' :5 (: 3 95 . B?92 23 +2 <2: <+2 B:
; 5 28 G 528 25' <+29B8 B 5E: +:53 B2 =R ; 25
' ' E + ' ' 28 B9 38 42 =R ; 25 +28 25 538
' J' :932 55G2 5 283 ? 95 =29B29A =R ; 25' 49
<B 532 ; <8 23 42 : : ; 52 ?9' 82 ; G+253 82 4:552B
+' ; 5 Q' , " '5 ' 3 + ' B:82 23 +2 + 8 ?9 95
4:9A =R ; 25' 882 ; G+2 5 ; 253 8:5' G2 5 32 53 R
. :5 :54253 2582 ; G+2 2 B' . :+:B 8 E2B ; 2 + 23 +25B
B E2 G+ 5. =29B / ' E ' '
32BB2 <BG8 + 53 42 4G8 83B28 :B ; 2 E2:' +2 42+
95' =R ; 25 3 + ' + : ' ?9' BGJ 3 +28 83B28 :552 + ' b
< A 9' J25B2 =9 ; 5 7' ' L 6 >29 42
=R ; 25 29' 5 +:J92 9 29' 42 : 2
-' (! 3' K - ' 42 4 29' 49' ; B 52
Q ; :3 ?9 25' JB2. 52 82 5*:9E2 ?92 4 58 + ' + : .93 :5
GL LE 23 .= 53 42 ; 5 J2' B ; 6 +28 G3R*
; :+:J 83 28 +28 958 +2 B 33 .=253 \G<B E ; 2 ; GB 52
.2 ?9' 283 <25' <B:G G+2 +28 53B28 \' 4 E:R =R ; 52
' # (! 'Q * ; 5' 23 9a8' * ; _ / ' ' 2B ; 2
4 5 3: ; 2' 2<+' ; 2 ; GB 529A ?9 :=2M +28 E 2BJ28
82 3B:9E2 :B4 5 B2 ; 253 \+253BG249 E J 5' L 2B ; 2
42 G:3 5 ?92' 23 32 <2 9 ?9' 25E2+:<<2 +2 G:93:5
428 +29B8 23 ?9' 82 82< B2 +:B8 42 2< 5:9 882 ; 253
-' 'O I' 8' 2+2 395 ?92 ?92 :5' <<2+2 =RK
; 25' :9' < 55 .9+2 E BJ 5 + ' ' "' +8 .5 4253
-' ' ' K

A ?

?9⁄ +' 5⁄R' '59 2 E 2BJ '?d' 5⁄ R2 + 4 32 =R ; 250 ?9 '
283 + '<:B3 ' E BJ 5 +20 ; 8 8 8⁄ G98253 'AE 50
"7
- ' (! ' ; 2 ; GB 520 ?9 ' :5 3 B2 4⁄95
B 4 . + 30 ?9 '82 3B :9E2 4 58 + ' + 3 5 7 # ' . :94B2@
3 4 58 3 889
* ' # (! ' Q * ; 4*5N2/0 ' 'LL 0 : ; ' 4 ' + ' 4 '
E 5 32 < 2552 ?9 '<B48 4 3 9A ; 5 J28 '#R ; 45 2
3 ⁄ ; :9B0 < B 4 8 448 B8 . :583 538 E 253 95 '
+29B8 . :29B8 428 +29B <+98 4 :9A <B 532 ; <80 '
e + ' D 7('LL ! B J20 95 :5 . :5@9J +2 ' ! 8
<B 8 B=R ; 4522 8 H+ 8 = : ; 281 8253 B : 8 3 +29B
3 :9B0 ' 0 ! ' 0 ' 3 52 8 E2M*E :98 < 8 ?9⁄ +
283 428 =R ; 45428 $9 ' :53 8 58 5 :98 9 42+ + 8
G2+28 428+ 5228^ 5 ' 0 7 (C # ' E0 N ' E 53 ?9⁄ :5 243
. :5 .+9 22 3 + =R ; '5220 ' ? - "# ' E0 ' H 823321
$9 ' 428 .= 528 4 'B=R ; 2522 293 .+ BJ2B ; 8 GB '
. B 88 5380 ? ' - "
V ' (! ' D+ Q@2E :R0 .= 53 4 ' ; B J20 4 9 49
; B J20 44B E2 42 hQ 'LE0 =E ; 253
3 ' # ! + (' Q * ; 4*5N*+ *3B⁄/ 0 " ; ' B 2B ; 8
4⁄253 : ; :+ :J 2 ' $9 ' +28 2+R3B 8 ; 2 ; GB 529A
- ' (! ' K - ' 0 23 #
3 ' # (! ' Q * ; 4*5 * :5 / ' # (! ! 'Q * ; 4*
5 * : ; ⁄/0 ^ ' ; ' 2B ; 8 42 G :3 5 ?92 ' :9 .=8 ; 2 ; *
GB 52982 89<2B . 2+2 < :B3 53 +28 :BJ 52842 + B9 . *
3 =2 3 : ' 4 58 +28 .= ; < J5 :58
- ' (! ' K - '
' # (! ' Q * ; 4*5 :*\ B*<⁄/0 " ; ' 2B ; 8
42 G :3 5 ?92 ' $9 ' ' +2 B9 3 ; 2 ; GB 529A
- ' (! ' K - ' 0 23 A <B2 : .0 B9 3
3 ' ! (! # ' Q * ; 2*5 :*JB * 2/0 ' '
2B ; 2 4⁄ 5 3 : ; 2 ' 28 .B <3 :5 428 ; 2 ; GB 528
- ' (! ' K - ' 0 23 (<4^U230 44 :B B2
3 ' # (! + ' Q * ; 2*5 :*+4*< *4 :*
<34*B⁄/0 " ; ' 2B ; 2 42 M : :+ :J 2 ' 582 .328 =R ; 45 :+2*
< 4 :<34B280 582 .328 ?9 ' :53 428 +28 ; 2 ; GB 529828
23 . :9E2B328 4⁄952 < :988 4B2 4 . 2982
- ' (! ' K - ' 0 S8 3 0 2 : +20 23 .32< :E0 2
3 ' # (! ' Q * ; 4*5 :*+ :*J 2/0 8 ' ' B +34
42 :' ; 2 ; GB 528
- ' (! ' K - ' 023 S :R :^0 3B 32
' ; ' ,$X ' 0$)M .) 1)M$) :7 1 ' ; ' ,$X)
' 0$)M) 1)M$)),7⁄ 'M' $⁄ . ' .
JE M $< 1 ' ? $ 1 ' 4QM . $ M'
- ' (! ' K - ' 0 23 < 9A530 .= ; < J5 :5
(! + # ' Q * ; 2*5 :* :*B⁄/0 ' ' 2B ; 2
42 G :3 5 ?92 ' B3 2 49 .= ; < J5 :5 ?9 ' 89<< :B38
B=R ; 25 9 ;
- ' (! ' K - ' 0 23 ^ :< : .0 ?9 ' < :B3
3 ' # (! # (' Q ' ; 4*5 :* 3+*+42/0 ' '
2B ; 2 42 G :3 5 ?92 ' ' : ; ' 4⁄9=2 3 G9 42 + ' 9 882
428 :9J4B28
- ' (! ' K - ' 0 23 <9SS :E0 29 +2 ' 0 0
, ' # (! ' Q * ; 4*5 :*< :*4⁄/0 " ; ' 2B ; 8 42
M : :+ :J 2 ' 82 9A =R ; 45 :< :4280 : 82 9A ?9 ' :53 +28
4 : J38 ' ; : 3 4 B495 8 < B 9$2 ; 2 ; GB 52
- (! ' K - ' 0 23 e 0 < 24
(! ' Q * ; 4*5 :*<34*B6/0 ' '
2B ; 2 4⁄253 : ; <+ :J 2 ' B4B2 42 + ' .+ 882 428 582 .U
3280 . : ; <B25 53 .29A ?9 ' :53 ? 3B2 +28 ; 2 ; GB K
529828 23 59280 32+28 ?92 +28 G2 +280 +28 J94<280
+28 :9B ; 80 23 . ' LL ? " ; ' 582 .32 =R ; 45 :<3GB2
- ' 'K - ' 0 23 XB2< E0 +2
3 ' # (! ' Q * ; 2*5 :*<3 'B :*+ :*@ 2/0
8 ' ' B3 2 42 253 : ; :+ :J 2 ?9 '3B 38 428 =R ; 2*
5 :<34B28 '
- ' (! ' K - ! 6# ' 23 S :R :R0 3B +34
3 ' # (! # I ' h * ; 4*5 :*BB 3M⁄/0 " ; ' 2B ; 2
*U2 G :3 5 ?92 ' $9 ' ' 428 B . 528 ; 2 ; GB 529828 '
⁄ + =R ; 45 :BB= M2
- ' (! ' K - ' 0 23 g \ 'B . 52
3 ' # (! # 0 ' Q * ; 4*5 :*34*8 50
8 2*5⁄/0 " ; ' 2B ; 8 42 G :3 5 ?92 ' = ; < J5 :58 =R*
; 25 :3=42 2580 .= ; < J5 :58 < :9BE 8 4⁄952 ; 2 ; K
GB 52 9 ' . :53 253 +28 . :B<98 . +28 B2<B :49 .329B8
- ' (! ' K - ' 0 23 MB@A<0 + :J8
V ?U - " - * ' Q * ; 4*5 :*3 :* ; 2/0 ^ ' ' 8K
82 .3 :5 428 ; 2 ; GB 528
- ' (! ' K - ' 0 23 A :J 0 4 882 .3 :=
' # (! ' Q * ; 54*B⁄/0 8 ' ; ' 2 .92 + 4⁄=R*
; 528
- ' (! ' K -
(! ' Q * ; 5⁄/0 8 ' W 'LL 0 * =2M +28 5 . 2580
< :2 ; 2 25 = :5529B 428 4 29A :9 428 =2B :8 '
' ' 53 ?92 25 ⁄= :5529B 42 + ' 4 E 5 32 ' 2 :<+28
42 3 :932 + '32BB20 < :9882M 2B8 29 428 .B 8 4⁄ ++4*
JB2882 .= 532M 95 =R ; 52 ' + ' J+ : B2 42 8 5 5 : ; 0
23 B2+2E2M*+ ' < B E :8 + :9 5J28 ' D ' 7 '
AE0 ++ ' 5 J252B + 23 < :43 ?92 ; 2530 .= 53 ' 28
= : 8 E :53 B2325338 428 =R ; 528 49 ; 3 50 '
0 # ' ' ' 58 ⁄=R ; 52 42 + '5 39B20 2 J529B0
2G ?92 .B2 39B2 :B ; 2 "' 8 :5 =29B2 25 ; 289B2 5

8 :5 49 . :5 .2B3 4 B 50 ' D # ' 0 '@L' " '@ '
' 2B ; 2 42 + 39BJ 2 ' B 4B2 25 83B : <=28 . :5 :B ; 28
' + ' <B :8 :4 2 + 3 520 ?92 ⁄ :5 .= 532 4 58 ⁄4J+ 82 '
52 G2+2 =R ; 52
- ' ! ' + ' 4 83 5 .3 :5 ?9 ' 3 =R ; 52 49 4 ; *
5 5 25 < B+ 53 428 =R ; 528 42 ⁄ J+ 820 5⁄ 'B 25 ?9 '
2@983 20 ! ' 4 58 ⁄43R ; :+ :J 208 : 3 4 58 ⁄= 83 :*
B ?92 49 ; :3
- ' # 0 A 6 8 ' 2+8 8 B280 253254 ' ⁄9B2 895 42
395 82B 0 23 : ' +2 R ; 52 2 + ' <B 2B2 ?92 R :32 M0
K ! ' < ' N ' LS ' 80 :83B2 =R552 283 : =2E40@2 '
52 E :98 + :9⁄B R <+980 ' F ;E ' = 532B =R ; 52
49 .RJ520 9
- ' (! ' B :E25 ? ' & - 3 28< ' & -# - !3 3 +
- - !3 49 + 3 ' =R5B5980 ?9 'E 253 49 JB23 '4< E : . '
28 43R ; :+ :J 8328 +2 3 B253 42 4 : 0 .= 532B0 G 25
?92 9 8 : 3 + :5J 4 58 * <E : . 23 =B2 ' 4 58 4 k ' 9
. :53B B20 4⁄ <B48 B3 980 4<X :P 283 42 ; 4 ; 2 B *
. 52 ?92 3 882B0 4^ :P0 3 889P ' ⁄2< :?92
B2 .9+22 :9 ⁄2 .B 39B2 23 3 5 . :55920 + ' <+9< B3 428
; :38 ?9 '82BE253 ' 54 ?92B 952 . : ; < :8 3 :5 < :4*
3 ?92 43 53 2 ; <B95348 ' B3 49 3 882B 540 49 . :5*
83B9 .329B0 23 .
j ' # (! $33 ' Q * ; 5 *\⁄/0 " ; ' $9 ' 'B << :B3 '
B=R ; 52P ?9 '283 49 J25B2 42 =R ; 52
' $- ? 'K -
' # (! ' Q * ; 5 :*4⁄/0 ' ' 23 ' 2B ; 2 4⁄ 5*
3 ?9 34 2+9 0 .2+2 ?9 ' .= 53 3 428 =R ; 528 4 58
+28 8 :+255 348 B2+ J 29828 b
- (! ' D LWQ<% : .0 424< (:^0=R ; 5@23VVU 0 .= 53
j ' # (! # ' Q * ; 5 :*JB * /0 ' ' 9329B
?9 ' . : ; < :82 428 =R ; 528 ' 5329 + 283 95 42 5 8
; 2 +29B8 =R ; 5 :JB <=28
j ' # (! + ' V * ; 5 :6JB * 2/0 ' ' 25B2
42 < :48 28 ?9 ' . : ; <B254 +28 =R ; 528 'LL B 32 G G+ :*
JB <= ?92 428 =R ; 528
- ' (! ' K - ' 23 (<4 <2 E0 44 .B B2
j ' # (! ' Q * ; 5 :*+ :*@ 2+0 ' ' B 34 DW B
+28 =R ; 528 ' 2B ; 2 42 + 39BJ 2 ' 4 . 3 3 :5 :9
.= 53 428 =R ; 528
- ' (! ' K - ' 23 @ ! ' 4 8 . :9B8
' (! ' Q *W5 *+ :*J =⁄/0 ' ' ?329B
4⁄952 =R ; 5 :+ :J 2
% ' # (* $ ' Q * :*4*< *J+ :*33 *\⁄/0 " ; '
2B ; 2 4⁄ 5 3 : ; 2 ' $9 ' << B3 253 ' =R :+42 23 '
4< J+ :332 ' ! 98?+2 =R :*4< J+ :33 ?920 :90 89G83 53 *
E2 ; 2530 =R :*4< J+ : ?920 ; 98 .+2 ; < B A4 89B
+2 ; + 29 49 . B< ' 42 =R4 420 23 8⁄ 584B 53 ' + '
G 82 42 4< J+ :332
- ' (! ' K ! " ' 23 / ! A
3 ' # (* ' Q * :*J+ :*8⁄> 0 5 ' 2B ; 2 4⁄ 5 K
3 : ; 2 ' ! 98 .+2 < B ?9 '8⁄ 33 <=2 ' :8 =R : 42 23 '
+ ' + 5J92
' $- ? 'D - " ' "% 4 6 8 L '⁄0 / 7 ! "
(' Q * :* *4⁄/0 " ; ' 2B ; 2 4⁄ 5 3 : ; 2 ' ⁄ :8
=R : 420 230 89G83 53 E2 ; 2530 =R : 420 :8 8 394
253B2 + 'G 82 42 + ' + 9@ '2 23 +2 + BR5A
*6 ' # 'S ' 8 ' ' J9B2 42 .23 :8 283 32+2 ?92
42 + ' +233B2 JB2 .?92 0 9 ; :R25 '4 :' ? < :R + 283 <K
<254 =R : 420 ' 9 ' ; ⁄
- ' (! ' + ' +233B2 JB2 .?92 :0 23 8+ :^0 :B ; 2
0 j ' # (0 ' h * * 4 50 4 4*5⁄/0 " ; '
32B ; 2 4⁄ 5 3 : ; 2 ' $9 ' 'B << :B3 ' :8 =R : 4 ;
3 ' # (* # (0 ' Q * :* *B 5*@ 50
@ 4*5⁄/0 * ' 2B ; 4 Q 5 3 : ; 2 ' $9 ' 'B << :B3 '
=R : 42 23 9 <= BR5A ' ! 98 .+2 =R :*<= BR5 '250 230
89G83 53 E2 ; 2530 =R :*<= BR5J 2 " ' +2 ' . :583B .329B
< :R25 49 <= BR5A
- ' (! ' K ! " ' 23 & # - / -
j ' # (D ' Q * :*88 * * ; *56/0 ' ' 2B ; 2
42 .G ; 2 ' 9G83 5 .2 442 :9E2B32 4 338 +28 82 ; ; .28
42 + ' @98?9 ; 2 8⁄/ ! (7 ' - / # ' + '9
' $- ? ' 0% & ! (7 ' $. *8 ' " , @
3 ' # ((! 'Q *8< :5*4 *+ :*3 :* ; 2/0
@ ' ' 2B ; 8 42 E432B 5 B2 ' :5 .3 5 42 ' < : .=28
J9339B +28
- ' (! 0 #R : 420 : 34E 9S : '0 E2B34GB20 23 # ! '
5 . 8 :5
% ' # (' Q * :*832B*5 +/0 ' ' 2B ; 2 4⁄ K
5 3 : ; 2 ' B : 8 2 ; 2 < 2 .2 49 832B59 ; 'QL 422 49
832B59 ; ' 428 3 :B3928
- ' (! ' K ! " ' 23 # -
j ' # (' :9 # (' <B4 A2 ? 4 4253 42 + '
<B2< :8 3 :5 JB2 .?92 4 3 0 23 ?9 '8 J5 2 8 :98 QE :R '
8 :98/0 23 2A<B ; 2 829E253 952 4 ; 593 :5P + 283
: << :84 ' =R<2 0 E :R ' .2 ; :3
(' h *< +*+ *@⁄/0 ' ' 2B ; 2 42 JB ; *
; B2 'T J9B2 < B + ?92+2 := ' < B @3 33B G92B '
.2B3 58 ; :38 4⁄952 <=B 82 .2 ?9 ' << B3 253 ' 4⁄ 9*
3B28 ; :38 42 .2332 <=B 820 8 58 ?90 + 8 : 3 < :88 G+2
42 82 ; 4<B254B2 9 8258 ' A2 ; <+2 ' 5 :522B 8 :5
.= <2 9 4 58 8 ' 34320 < :9B 25 :522B 8 ' 3432 4 58
8 :5 .= <2 9

- ' (! ' 6S3E SSW('G 42 E3 0 23 SS49 .23R0 .= 5K
J2B
3 ' # (# 'Q *< 5* /0 ' ' 2B ; 2 42 G :3 K
5 ?92 ' B3 2 5 4B 29B2 49 . + .2 'LL : ; ' 4 :554 9
; :42 4⁄ 5 + :B28 .25 .2 ?92 <B482532 +2 J9 2B
- ' (# ' # R< 0 23 4E :?0 +29B
' # (# 0 ' Q *< 5*340 342/0 " ; ' 2B ; 2
42 G :3 5 ?92 ' :53 +2 . + .2 23 + ' . :B :+2 8⁄ 58 B253
8 :98 :E B2
- ' (! ' K 6
; 3 # (' Q *< * /0 6 ' ' 2B ; 2 42 ; 98 ?92 5*
. 2552 ' + ' . :B42 + ' <+98 JB E2 42 + ' +RB2 23 428
429A 343B . :B428 +28 <+98 = 8
- ' (! ' EB . 50 + ' 42 ; 232 . :B420
' # (' <B4 A2 ?9 'B2<3482532 + ' <B4< :8 3 :5
JB2 .?92 4 <0 23 8 J5 2 9*428898 9 42+ ' QE :R '
83 ; 0 <B4< /P + 2A<B ; 2 25 J454B + 2AQY/ +2 <+98
= 9+ 42JB4P + 283 : << :84 ' =R< : ' 58 +2 + 5J J2
.= ; ?920 .28 429A <B4< :8 3 :58 < :B3253 5 :5 89B
4+2 ; 253 2A<B+ ; 4 ?9 ' +28 89 30 ; 8 89B :ARJ252
?9 '283 8 :98*2532549P 58 ' =R< : M :3 ?92 E2 3 4 B2
' ?9⁄ + R ' ' ; : 58 4⁄ \ :320 ; 8 ; 2 58 4⁄ :ARJ452
?92 4 58 ! / 7 3 23 & #(& ! # =7 ' E293 4 B2
5 :5 ?9⁄ + R ' <+98 42 .= + :B20 ; 8 <+98 4⁄ :ARJ452
4 58 +2 & ! # *
3 ' # (' Q *<2B* *\9*M 2/0 8 ' ' 2B ; 2
42 ; 442 . 52 ' A +3 3 :5 42 :9+2P <2B .2<3 :5 . :5K
982 23 4 :9+ :9B2982 42 .2B3 58 8 :580 89B3 :93 42
.29A ?9 '8 :53 4+2E48 23 J98
- ' ! ' $5 3B :9E2 4 58 428 + EB28 42 ; 442 . 52
& (!7 ' .2 ?9 '283 952 4 :9G+2 9320 '52 < :9*
E 53 43B2 89<<B ; 40 23 + ' 4 <=3G :5J92 '82 B254 53
25 + 3 5 23 25 3 5 ' 8 < B 7
- ' (! ' K # ' 23 A :9 :50 .3 :5 4⁄253254B2
j ' # (D ! ' Q *<NB* +*G9* ; *5%*M⁄/0
' ' 2B ; 2 42 ; 442 . 52 ' 9J ; 253 3 :5 42 + ' ?9 5*
3 34 4⁄ +G9 ; 52 4 ' 8 5J
- ' (! ' K # ' 23 7 -
(' Q *<2B*G * /0 ' ' J9B2 42
JB ; ; B2 ' 5E2B8 :5 ' ⁄=R<2BG 32 283 95 3 :98 < B*
3 .9+ 2B ?9⁄ :5 4 :552 ' 952 <4B :420 23 ?9 ' . :58 832
<B 5 . < +2 ; 253 ' B2 <B42442B 952 <B : < :8 3 :5
< B 952 93B2 ?9 0 4 58 :B4 2 5 39B2+0 9B 3 4$
+ '89 EB2P < B 2A2 ; <+20 4 58 .28 E2B8 42 . 52 '
$920 ; +JB4 + ' < 3 4 4 :53 @2 ; 2 8258 8 8 B0 58
+2 8 5J 4⁄95 25 53 @2 ; 2 G J52 ' + : 8 B 8? - "#
0 /0 ' B ; ; ' ' . '1< -5# ' ' A0 < ' :0
4 58 7 ! ' LL B3 .9+ B2 ; 253 J9B2 ?9 ' . :5K
8 832 ' 532BE2B3 B0 'B25E2B82B =B98?92 ; 253 :B4B2
5 39B21 49 4 8 . :9B8 < :9B 2@<'B ; 2B 952 E :+253 '
2 .3 :5 42 ; 2
- ' (! ' › B @(, ! ' 42 h 5+<0 9 42+ 0 23 <Wc*
. (- . ' +2B
# (' Q *<2B*G :*>⁄/0 ' ' #] J9B2 42
B=43 :B ? :2 ?9 ' . :58 832 ' 9J ; 2532B :9 ' 4 ; 592 '
2A .288+E2 ; 253 + '0E4B 34 428 .= :828 < :9B ?9⁄2+2
<B :49 82 <+98 4⁄ ; <B288 :5 ' B+ :58 8 58 =R<2BG :+2
23 8 58 <+ 8 532B 20 < ' @ 'A' 3 G 25343 E :98
2BB2M ; +2 9329B8 < : 53 +29A0 422 ' < 422
4<+9 .= 53 E :8 8 :58 23 E :8 < B :+280 532B4 B2 .G2M
E :98 253B42 9A =R<2BG :+280 ' # 'A ' >9E4*
5 +0 2+2E4 4 58 +28 . B 8 42 ⁄4 . :+20 :588 '@98?9⁄ '
2A248 8 ' ; 29@4 532 =R<2BG :+20 - ' ? # ' ' ⁄GR*
<2BG :+2 2A<B ; 2 9 42+ ' 42 + 'E4B 34 < :9B B ; 252B
'28<B 3 ' + ' ; 29A . :55 3B20 ' ' ' 28 28*
<B 38 E 80 <+2 58 42 290 23 ?9⁄952 E 832 ; J 5 K
3 :5 2 ; < :B32 = :B8 428 B4J+28 23 42 + '@98328820 52
<29R253 8⁄ 88 :9E B 42 =R<2BG :+20 " ' ' 2 .R5 8 ; 2
428 ; :29B8 4 : 3 8 + B + < ' +20 3 + ' = 52 49 ; +
25 532 ⁄=R<2BG :+20 ' 0 <B :+ :J92 '
Q ' 6 2B ; : ' 42 + 3=4 ; 3 ?92 ' :9BG2 32+ +2 ?9⁄25
; 25 53 4⁄95 ?92+ . :5?92 42 828 < : 538 428 B R :58
' 429A < : 538 A28 5 : ; ; 48 :R2B80 + ' 4 4B25 .2 42
.28 B R :58 2833 :9@ :9B8 + ' ; 4 ; 2P 2+2 283 952 428
82 .3 :58 . :5 ?9280 .2+ :' ?9 '283 25J254B42 < B95
<+ 5 . :9< 53 :G+ ?92 ; 253 95 . 52 4B : 30 42 ; *
5 4B2 ' < :9E :B . :9<2B 988 '95 82 . :54 2452 82 ; *
G+ G+2 9 <B2 ; 2B 23 ?9 ' + 9 '82B 3 : << :84P 2+2 283
; 42 42 429A GB 5 .=28 544 5 >5 :53 :9E2B328 3
82 3 :9 ; 53 ; 9392+2 ; 253 +29B . :5E2A 34 ' . :+ 8
! 2B . 3 :B <9=+ ' 25 ' "NNF 8 ' + :J B 3= ; ' :32 .=5 20 :5
+ 4 :55 30 < B 952 89 32 :9 84B 2 5 5 20 + '?E 4B *
39B2 42 =R<2BG :+20 ' #W323 :W +#R<2 .G : f
4?9 + 34B20 .2+2 4 :53 +28 A28 8253 4J 9A
- ' (! ' 3 ' & # ! ' 42 42 B6 /
9 42+ 0 23 <4S ; E0@232B
3 ' # (! ' Q*+*<4B*G :*+ * :B* ; ⁄/0 " ; '
2B ; 4 42 J4 : ; 43B 2 ' $9 ' 82 B << B : .=2 42 =R<2BK
G :+2 ' :9BG28 =R<2BG :+ :5528 5 : ; ' ?92 428 J2 :*
; 43B28 :53 4 :554 ' 428 . :9BG28 4 :53 +28 4?9 3 :58
:53 952 :B ; 2 5 + :J92 ' .2+2 42 =R<2BG :+2 :BK
4 5 B2
' ' (! ' K # ! ' 23 :B ; 2

AM

; 5 B +:J 2' 83 5.2 4 58 + ?92++2 + ' <RB ; 42
89<2B 29B2 428 .B 83 9M 283 32B ; 5 ^ < B 428 .28
3B28*N3B: 328
' K # B3E P0 3B: 3
3# (# Q *<2B*832*5 2/0 80 ' 2B ; 242
; .42. 52' A +3 3 :5 428 :B.28 ?9 0 4 58 +2 8R8*
32 ; 2 49 GB: X5 8 ; 20 . . : ; < J52 +28 ; + 4 28 83G *
5 ?928
- ' (! ' #R<2B 0 23 :N2E: .0 :B.2
j' # (! $ ' Q *< B* 3:* ; *\&/0 : 4@' 2B ; 2
42 G:3 5 ?92 ' *$9 ' 8& 582B2 9*428898 42 B:B :2 49
. + .2
' # R<2B 0 23 : :< 0 :B .2
3' # (($ ' Q *<GB*83 *+ *\&/0 4@' 2B ; 2
42 G:3 5 ?92' 9 ' 8& 582B2 9*428898 49 83R+2
' #R<2B 23 83R+2
b' # (' Q *<2B*89+* 9*B&/08 ' ; ' 2B ; 2
42 .= ; 2' 9+ 9B2 9 ; A ; 9 ; 42 8:9 B2
' # R<2B 0 ' 7 7#
' # (' # (' Q *<2B*3 *B: 5/0 ' ' 2B ; 2
4& B.= 32.39B2 5. 2552' 8<2.2 42 3 G+2 25 :B ; 2
42 B 82 9*428898 49 .= ; GB 5+2 4 58 +28 <:B328
4:B ?928
' ' 3 < 9<:E0 42 53 <0 9*4288980 23
:< 0 <:B32' 0, D
' # (! ' Q *<2B*3:*5 2/0 ' ' 2B ; 2 42
; 242. 52' A.28 42 3:5 4 58 +28 8:+ 428 :BJ 5 ?928
- ' (! ' K # ' 23 3:50 8 ' ; P
3' # (# ' Q *<GB*+B:* 2/0 8 ' ' 2B ; 2
42 ; 242. 52' . .B: 882 ; 253 2 .288 ' 4695 :BJ 52
4&952 <:B3 :5 4& :BJ 520 8 58 +32B 3 :5 B 2++2 42
8 ' 32A39B2 53 ; 2' #R<2B3B: <G 2 49 . :29B
' ' K # ' 23 <:< 0 5:9BB 39B20 9 3B *
3 :5
3' # (# 0 ' Q *<2B*3B:* B40 42/0 # '
' 4& =R<2B3B: <G 2B' $9 ' ' <B 8 3B:< 4& . .B: 8*
82 ; 2530 42 E:+9 ; 2' 2 : :29B =R<2B3B: <= 4
3' # (# ' Q *<4B*3B:* *4/0 ' : ' 982B
B=R<2B3B: <= 2' 28 :G83 .+28 \' + ' . B.9+ 3 :5 =R<2B*
3B: <= 253 +2 . :29B0 LL &=R<2B3B: <= 2B0 5 ' # ' 2E2*
5 B =R<2B3B: <= 4' b
3' # (# $ ' Q *<2B*3B:* *\&/0' " ; ' $9 '
82 B <<:B32 "' =R<2B3B: <= 2
K?U 6 ' Q *<4*3B&/0 ' ' 2B ; 2 4& B.= 322*
39B2' 4 .20 32 ; <+2 44. :9E2B3' L?" ' 2 ; <+2 =R*
<23B2
' '] 3 <:E0 42 BB40 8:980 23 < 0 .@2+
44. :9E2B30 42 ; 2 ; 2 B 4 . + ?92 + '< QE:R' 6 G
(# ! ' Q * *8 ; &/0 ' ; ' 2B 52 42 G:3 K
5 ?92' :B3 :5 43 +42 23 +: . :552982 42'.2B3 58
.= ; < J5:58
- ' (!]BV< Q@< 0 3 889P 4 <+/0 4<: :0 < </P 8 58.B'
5@ & ' 3 8829B0 B 4 . + : :4[30 3 882BP ++2 ; ' Q - '
3 882B
,' # (# ! ' Q * 4* ; 2/0 ' ' 2B ; 2 42 ; 442*
. 52' ; 593 :5 4 ' 8 5J
- ' (! ' :<&0 h+ 240 9*4288:980 23 3<
3' # (# ' Q * 35&/0 ^' ' =2M +28 B2.80 3B 3 25
:B ; 2 4& B.' B25E2B82 54 ?9 53 + ' B295 :5 42 429A
; :38 25 95 829+ . : ; <:82' : ; ; 2 +28 52 258 52
84< B 253 < 8 +29B8 ; :380 8& + R E 3 < B 2A2 ; <+2
- 5! - ' :5 <:9E 3 .B: B2 ?9++ R E 3 429A
; :380 - ' 23 5! - 3 &=R<=25 54 ?9 3 ?92 2&23 3
95 829+ ; :3P + 43 3 :<<:82 ' + ' 4 83:+2
- ' (! ' <&0 G B40 8:980 23 E0 95
3' # (# ! (' Q * :* ; *8&/0 ' ' ' 2B ; 2 42
G:3 5 ?92' + 882 42 2= ; < J5:58 B25 2B ; 53 .29A
?9 ' :53 +2 3G ++2 +: . :5529A
' ' :< 0 3 8890 23 Q 4AB/^' = ; < J5:5
3' # (# ' Q * :*8<:*B&/ ' " ; ' 2B ; 2 42
G:3 5 ?92' 2 4 3 428 + .=258 ?9 ' :53 + ' :B ; 2 42
+ 52538
' ' < 0 3 8890 + ; 2530 23 !#
' # (0 # (0 <B2 ; 2B ; 2 ; GB2 4&95
.2B3 5 5:<AGB2 42 . : ; <:848 ?9 ' 8 J5 2 8: ; ; 2 30
49 JB2.' R E:P0 B2<B 8253 53 2A .32 ; 253 +2 + 3'
! -7 ' ! -7 ' +2 8 58.B' 5 - ' B 4 . + 5 '
4:B ; B
3' # ($ ' Q *<5 *J:*@ *\&/0 " ; ' $9 '
. :549 3 9 8: ; ; 2 + ' LL# ++9. 5 3 :58 =R<5 J:J .'
?9280 E 8 :58 ?92 :5 ' +:B8?920 ; : 3 2 E2 ++20
; . 3 4 254:B ; 0 :5 283 <B28 4&253B2B&4 58 +2 8: ; K
; 2 +
- ' (! ' .E:P0 8: ; ; 2 +0 23 3 ' ?9 ' ; 252
3' # (' Q *<5 * *3B&/0 ' ' : ; 5 ; G9+2
?9 0 4 58 +2 8: ; ; 2 + ; J52 ?920 <B28253 428 B2*
; \428 ' +9 * ; 4 ; 2 :9 9A 93B28
- ' (! ' BE:^0 8: ; ; 2 +0 23 + E<4^0 ; 242. 5
j' # (! ' Q *<5 * *3B 2/0 8 ' ' B 32 ; 253
428 ; + 4 28 < B 95 =R<5 3B2
3' (' Q *<5 :*G * /0 ' ' R5:5R ; 2
<29 98 32 42 8: ; 5 ; G9+2
' ' A3E:30 8: ; ; 2 +0 23 < E2 E0 ; B.=2B

' # (' Q *<5 :*G *3G*M&/0 ' ' R5:5R ; 2
<29 98 32 42 8: ; 5 ; G9+ 8 ; 2
' ' K -!
3 # (' Q *<5 :*G+G*<8 2/08 [D' : ; 5 ; *
G9+ 8 ; 2 +9. 42
4 ' ' " N ' *8: ; ; 2 +0 23 <S2AB2 E0 E: B0
(# ' Q *<5 :*JB * 2/0 8 ' ' 28.B <K
3 :5 49 8: ; ; 2 +
' ' " ' 8: ; ; 2 +0 23 R<4 k2 E0 42.B B2'
(' Q *<5 :*+ :*@ 2/0 8 ' ' 3942 49
8: ; ; 2 +0 3B 34 89B +2 8: ; ; 2 + ' ', b
' ' Y" N ' 8: ; ; 2 +0 23 S:R:P0 ' 3B 3 ' b
3' # ($ ' Q *<5 :*+ :*@ *\&/0 " ; ' $9 ' '
B <<:B3 \' =R<5 :+:J 2
3' # (# ' Q *<5 * :*G 2/0 ' ' 2B?'2 42
; 42. 52' B 532 42 4:B35 BP 32BB29B 49B 53 +2
8: ; ; 2# ' D &
' ' 3E: P0 2: ; ; 2 +0 23 ^M : 0*.B 5320
' # (' Q *<5 :* :*5&/0 ' ' 2+9 ' ?9 '
< B+2 4 58 +2 8: = ; 2 + ; J5 3 ?92' 0 ,
' ' 3E:P0 8: ; ; 2 +0 23 V<XE'0 E: A'
($ ' Q *<5 :*3 *\&/0 "2 ' # ` 2B ; 2 42
; 42. 52' $9 ' <B: .9B2 +2 8: ; ; 2 + ' @I 9G83 53 E2*
; 253' 28 =R<5 :3 ?928 ' LL ` $9 ' 'B <<:B3 \' GR<5 :*
3 8 ; 2' ' ' D
- ' # ' S D8 ' 28 @9+2<8 =R<5 :3 ?928 ' + 5&283
< 8 \' <B: <:8 42 4:552B 3:9@49B8 428 =R<5 :3 ?9280
' AA@0 Y ' V
' ' 3E ! A .42 # 5! ' 254:55 B @ ?9 '
R 253 42 ' -N ' 8: ; ; 2@+ QE:R' 6 G
I ' ; F 2 ,$% '0$) 1) $)[% [7% " ' "
. :EQ 1 $ ' ; Q 1 $ $ ' ' < . ' ,$# M ' '
1I)2 J ' ' < ' - : %
, ' ; `CX A')0 1) $)[7% + ' ' B - .
:EQ 1 $ M ' L
b@ # (! ' Q *<5 :*3 *8 ; &/D0 ' ' 2B ; 2 42
<=R8 :+:J 2' :B32 4D 3 3 ; J5 3 ?92 ?92 :5 <B:*
bE:?926 25 8 53 B2J B42B < B 952 <2B8:552 95
. :B<8 GB ++ 53 ?9&:5 3 253 3BG8*< G8 428 R29A
' ' :R' 6 " < : =
(0 0 :R' n ' :99+&2 ; <+: ' 42 =R< : P 0
25 .= ; 20 E:R' , ' '
3' # (I $ ' Q *<:* *M 3 *\&/'0
2B ; 2 42 .= ; 2' @(: 42 =R '<*3:3 ?920 .342 :G*
3259 25 4 83 +G ; 3 +YM:3 2 42 <+: ; G 2.0 3 ' ?9 '
82 ; G+2 3B2 95 . ; <:8 0 \' ?9 E +_538 2J 9A0 4 '
. 42 M:32?A 023 4& 442 M:3+?92P : B ' 52 4:552
< 8 42 82 8 <B: <B2 Q=R<:* M:3 328/' E2:' +28 G 8280
; 8 428 M:3 328 23 428 M<3 328' 00
' ' :M:33? ! '
b 3' 5B I ' Q 6<:* *M:*3 *3&/0W ' ' 2B ; 2 42
.= ; 20 R<:5R ; 2 4& M:3 32
&' 6 + - @# " ' ' 3' 2B ; 2 42 *G:3 5+J92'
:B<8 = B= ' 89<<:B3 53 +2 e 832
*. ' ' K ! ' 23 <S 93 P0 J2B ; 2'
' # (' Q *?L *G:* /U ' * 2B ; 2 42 B= 3:*
B ?92' J9B2 <+98 . : 592 8:98 +2 5: ; ' 42 89G@2.K
3 :5 :9 53 . < 3 :5' 0 D
K ' ' CB:J:S L0Vn2 # # ' 23 4SS2X0 @232B
b@ # (# ' Q *<:*GB =*@.=&/ 0 : 4@' 2B ; 242
M: : :J 2' $9 ' ' +28 5B 5.= 28 8:98 +2 . :B<8
' ' #R<: 0 23 GB: 3. !
(' Q *<:*\ *+ *' 2/0 ' ' 2B 52 42
G:3 5 ?92' 3 3 428 <+ 5328 4:53 +2 . + .2 283 5 *
3 29B \' :E B2
- ' (! ' #R<:' 0 23 . :+ .2
3' # (' Q *<:*\ B*<&/0 8 ' ' 2B ; 2 42
G:3 5 ?92' ! 2 42 + ' <+ 532 893 + ?9<++20 +2 B9 3
B2<:82
' ' K ! ' 23 A <@3>.0 B9 3
,@ # (0 ' Q *<N*\ B*<:*@ 0@ e0 "2 '
2B ; 2 42 G:3 5 ?92' + 5328 =R<: : B<:J 280 <+ 5328
4:53 +28 B9 38 ; \B 88253 8:98 \' 32BB2 B 32+8 8:53
B .= 420 +2 3BG +2 8:932BB 5
' ' K ! ' A < :P0 B9 30 * ' 32BB2
3' # (# ' h *<:*\ *32B*8+2/008 ' ' 2B ; 2
42 ; 242. 52' 9BJ 3 :5 3B28* G+2
' ' K ! ' 23 A4 <:3P0 <9BJ 3 :5
3' (' Q *<:*\N*83&/0 ') ' 2B ; 2 4& 5*
3 ?9 3 ' :9 ; 2 9 8:932BB 50 4 58 +28 3=2B ; 28
' ' DB . A RVB3:E0 42 @ :P 8 980 23 I 323E0
GB3++2B
3' # (# 3 ' Q *<:*\ * /' :9 # (#+ + '
Q *<:*\ *+ *:5/0 0 ' 2B ; 2 42 G:3 5 ?92' B3 2 5*
B 29B2 49 3 G+ 2B 428 :B:= 4 28
' ' #R<: 0 23 + ' EB2
3' # (# ' Q *<:*\+:*B *3&/0 ' ; ' :R'
6 6 <
' # (S' Q *<:*\+:*B24/0 " ; ' :' 2B ; 2
42 .= ; 2' . 42 =R<: . =+:B29A0 95 422 :A . 428 49
.=+:B2
3' # (# $ ' Q *<:*\+:*B *\&/0 " ; ' 2B ; 2
42 .= ; 2' . 42 =R<:2=+:B ?920 . 42 :G3259 25

4 . : ; :8 53 +2 .=+:B 32 42 <:3 882 < B . 42 89+*
9B ?92P ' 283 8R5:5R ; 2 4&:AR.=+:B ?920 23 < B 3
:B ; 0 \' 2?9 E +2538 J 9A0 4& . 42 .G+:B ?92 23
4& . 42 . ! :B29AP . B + 52 4:552 <: 53 4282 8 <B:*
<B28 Q=R<: . =+:B 328/0' ; 8 428 .=+:B 328 23 428
. e X 328
' ' #R<: 0 23 * + ,
%' # (# ' Q *<:*\+:*B * /0 ' ' 2B ; 2
42 .= ; 2' : ; ' J 5 B ?92 428 82+8 :B ; 8 < B *
2 42 =R<: . =+:B29A0 4:53 <+98 29B8 8:53 2 ; <+:R28
<:9B 4 8 5 2:32B' LL #R<: . =+:B 32 *:9 .=+:B 32 42 <:' b
3 8820 2 9 42 > E2++2P LL #R<: . =+:B 320 :9 .=+:B 32 42
.= 9A0 :9 .=+:B9B2 42 .= 9A :9<:94B2 42 255 530
. : ; <:82 . : ; <+2A2 42 .=+:B 32 23 42 .=+:B 32 42
.= 9A0 42 .=+:B9B2 42 . +. 9 ; ' 23 42 .= 9A =R4B 3 20
?9 ' 82 <B < B2 25 JB 54 4 58 +2 . : ; ; 2B.2 ' LL #R<:K
.=+:B 320 .=+:B 32 :9 .=+:B9B2 42 8:9420 333 988 '
+ ?929B 42 G BB ?920 + ?9 42 428 5 2.3 ;
3' # (' Q *<:*8 *8 /0 ' ' 2B ; 2 42 G:3 K
5 ?92' + 532 < B 8 32 Q.R+359 ' 4" * ' 3 /0 4:53
:5 :G3 253 +2 892 4&=R<: . 8320 ?9 ' <B254 + ' . :58 8*
3 5.2 4&2A3B 3 < B :5 2A<:8 3 :5 9 8: 2 +0 ; ++2
428 B 83:+: := 28' ,
60' (! ' DB 3:A BB B
(' Q *<:*\ :5*4B&/0 ' ' LL ` 2B ; 8
4& 8 3: ; 2' = .952 428 < B3 28 + 32B +28 42
& G4: ; 25 8 39 28 8:98 +28 98828 . 328 ' LL ` # : ; ; 2
; 2+ 5 + ?920 48 ' 5: ; ; ' < B28 ?92 &=R<: . :5*
4B 2 3 3 89h' :8 2 E: B 8:5 8 J2 4 58 +28 =R<:*
: :54B28' 28 G 258 ?92 &=R<: . :54B2 25 828 E <29B8
<B: ; 230 7 ' # ' A ' LL & 6 ' + 42E+253 =R<:*
. :54B2 ' /L :90 2A3B E J 53' > ; 8 + ' 4 ; 2 + ' <+98
G2++2 2 .= B ; *3 3 8:5 E: .+D$92 3 .2332 <:982
5:9E: +2 :5 =R<: . :54B2 42 ; B 0 ' ' - 1 '
0 VF' :50 ; 8 .253 : 8 + ' G 32 ' E9 =: ; ; 2
=R<: . :54B2 4:B2B +2 ; 3 + ?92 +9 * ; 2 ; W + 3
:54 20 :3 ' E ; ' 83*.2 < B J:3+3 =R<: . :54B2
?92 .2332 2 ; ; 2 ; 2 95 R +23^ ' ' !
- ' ! ' N5 52 E:+3 < 8 <:9B?9: ' & . 4 ; 2
W9<<B ; 2 $% ' 3R ; D:+:J ?92 25 *.2 ; :3 ?9 ' 42EB 3
8& .B B2 GR<: . = :54B2' D
' 6 ' 19 B ' 50 &2< J 83B2 \93 . :58 42B2B
429A < B3 28 + 32B +2800 +28 =R<:2= :54B28 42A3B2 23
885283B2 D ' 8:98 +&=R<: . = :54B2 4B: 30 ' <+98 JB 542
< B3 2 49 : 20 ' 0 ' 0
,* ' ' `(W:A:EF<E:E0 42 . :0 8:980 23
F<:P0 +28 . B3 + J28 428 .N328
($ ' Q *@ ; *\ :5*4B * * ' / 0 6'
' 3]' 2B@52 42 ; 242. 52' $9 ' << B3 253 \' &=R<:*
. :54B 2' 28 D2.3 :58 =R<: . :54B ?928 ' LL 0 $9 '
283 332 53 4&=R<: . :54B 2' 5 ; + 42 =R<: . :5*
4B ?92 ' LQ 9G83 53 E2 ; 253' 5 =R<: . :54B ?92'
` B 2A3258 :50 :90 58258 ' :98 E2M !25
:9 ' < B+2B 42 ?92+?928 B2 528 =R<: . :54B ?928 ?9 '
:53 29 42 & ; :9B ' :9B 95 ; 5 23 <:9B 95 ; 9B2'
I 0 0F6' * ' = ' * , ' LL 9G83 53 E2 ; 253' 2 ; *
G+ G+2 9A =R<: . :54B ?928 4:53 + ' 53 8 2 G+28*
8 2 82 B2< 3 49 8 ; 9+ .B2 23 490 8D:5J ' ' 4&95 <+ 8 E
E 5 23 .= ; 2B ?920 ' 0 ' * ' 8
- ' # ' S 6 8 D 28 4R82532B 280 ; 2+ 5.=:+ 280
=R<: .= :54B ?9280 4 BB=228 0 ' ' 3 ' 29A
?92 5:98 <<2++:58 =R<: .= :54B ?9280 e 25 ?9& +8
8: 253 + J ' ' 4&952 ' ; + 4 2 42 ; 2+ 5.=:*
+ 2 0 ' SS0
- ' (! ' K ! (! - "#
+ ' 4*<:*\ :5*4B 2/0 ' ' LL 6 2B ; 2
42 ; 42. 52' :B32 42 ; + 4 2 52BE2982 + , ' 3B:9*
e 53+& 532++ J2522 428 ; + 4280 +29B ' .B: B2 ?9& +6
8:53 33 ?9 8 428 ; + 4 28 +28 " , ' 4 E2B8280 42
; 5 \B2 ?9& +8 < 88253 <:9B ; + 428 ; J 5 B28
3:93 25 8:9 B 53 G2 9. :9<0 23 ?9& +8 8253 <+:*5J 8
4 58 52 3B 832882 = G 392++2' ' 5 J 5 3 +0 3B 8*
328820 ; + 5. : 2
- ' (! ' 4" * ' < B.2 ?9&:5 89<<:8 3 ?92
+ ' . 982 42 $ 4" * ' 42<254 3 428 E 8.2B28
+:J 8 4 58 +28 4" *
' # (# ' Q *<:*\ :* 4*M&/0 ' ' 2B ; 2 4W
; 42. 52' 9B4 3 ' 5. : ; <+ 320 49B232 42 &:9 2
- ' (3' 4" ? ' 23 AV_<X: .0 89B4 3
%' # (0 ' Q *<:*\ :*B:+*+ 0 + 2/0 6'
2B ; 2 42 G:3 5 ?92' :53 + ' . :B:++2 8& 582B2 8:98
&.E B2
' ' ' 4" + ' *
' # (3 + ' Q *<:*\ :*B:+*+ 2/0 ' [' 2B ; 2
42 G:3 5 ?92' + 882 42 <+ 5328 . : ; <B25 53 +28 4 *
. :3R+24:528 ; :5:< 3 +28 \' : :B:++< =R<:JR52
%' # (' Q *<:*3B*5&>0)' ' 2B ; 2 42
2 e B9BJ 2' G. 8 8 39 ' 253B2 +2 <B\52 23 + ' 49B2*
; 2B2
' ' K ! ' 23 #"-
(' Q *<:*\B 8+0 ' ' 35 8 :5 42 . 5*
52++20 4& ; 5428 4:9.280 4&95 <29 42 3598.' 23 4& ; *
GB20 4 98 49 E 5 49+. :B2 E2.' 49 89.B2' $9:' E:9A

[illegible]

- AB

3' # (3+ ' Q *<:*<"*3 *+ 2/0 ' ' 2B ; 2 42 G:3 5 ?92' 3 3 4.952 <+ 532 4:53 + ' .:B: 2 8. 5* 'B2 8:98 .:E B2 > ' + 882 42 <+ 9328 .: ; <B25 53 +28 4 .:3R+24:528 <:+R<'3 +28 ' '3 ; 528 =R<:* JR5280 4. <B_8 + ' 32B ; 5:+:J 2 42 ' ' 42 5K 4:+2

3' # (# (S Q *<:* *B 5\8./0 8' ' 2B ; 2 4.253: ; :+:J 2' <<254 .2 49 <= BR5A 42 ?92+?928 GR ; 25:<32B28

'M ? ' K ! ' & # -B

3' # (# ' Q *<:* *M./0 ' ' 2B ; 2 42 ; 4* 42. 52' 8<'.2 42 .+ J52 ; 253 :9)3 3 428 R29A 4 58 +2?92' +8 8253 <B28?92 253 2B2 ; 253 2B ; 28 42 ; 5 'B2 ?9.:5 5. <2B?: 3 ?9.952 < B3 2 49 e 52

-' (! ' (KM) V3 W 42 53:0 8:980 95' <290 23 :4E2 E < B 33B2

j' # (# ' Q *<:* +)*:*4./0 ! ";' 2B ; 2 42 G:3 5 ?92' $9' .B: 3 8:98 . < 42B ; 2 428 E J23 9A

-' (! ' K ! ' 23 '/S:3M^0 .:B.2

j' ' # (# ' Q *<:* :*B./0 8' ' 2B ; 2 42 B=23:B ?92' B3 2 42 + ' J9B2 4 32 <B:+2<82 :9' 5* 32:..9< 3 :50 23 4 58 + ?92+2 :5' . 32 23 3:9 ; 2B2 +28 :G2.3 :58

' ' D A:R:<:20 42 MA 0 8:980 23 '8<8 E0 <:BK 32B0 .3 :5 42 <B282532B

3' ' # (# ' Q *<:* :*B./0' ' ' 2B ; 2 42 .= B9BJ 2' +.=B2 <B: :540 839+29A

' ' A: : : < 0 42 NA"0 8:980 23 ' <8 E0 <:BK 32B .3 :5 42 .=2 ; 52B8:98

3' # (# F # ' Q *<:*3:*8 * /0 ' ' 2B ; 2 42 .= ; 2' 2 <B:49 3 < B + ' .: ; G 5 8:5 42 . * . 42 =R<:<=:8<=:B ?92 E2.'952 G 82

3' # (# # ' Q *<:* :*8 * /0 8' ; ' 2B ; 2 42 .G ; 2' 2 <B:49 3 < B + ' .: ; G 5 4X5 42 . * . 42 =R<:<=:8<=:B29A E2.'952 G 82

3' # (# # S Q *<:* :*8 :*B24/0 ";' ' 2B ; 2 42 .= ; 2' 2 4 3 49 <B2 ; 2B 428 :A * . 428 49 <=:8<=:B2

' ' K ! ' 23 &! &!# 7B

3' # (# # $ ' Q *<:* :*8 :*B * ./0 ";' ' 2B ; 2 42 .= ; 2' 2 4 3 4.95 428 :A . 428 49' <=:8<=:B2

-' (! ' K ! ' &! &!# =7

3' # (# (D ' Q *<:* B *@ 5/0 ";' ' 2B ; 8 42 ; 98 ?92 5. 2552 23 42 <+ 5*.= 53' ! :42 =R* <:<=BRJ 250 ; :42 ?9' 283 ' 952 ?9 B38 9*4288:98 49 ; :42 <=BRJ 25 + R 25 E 3 429A0 82+:5 B* 3= +2 ; R0 ?- (&' .=' AAE ' +2 JB E2 ?9' B4<:54 3 +05:3B2 3:5 4.930 23 . J9 ?9' B4<:54 3 ' 5:3B2 3:5 4.93 4 M2' 0 ' * D

-' (! ' K ! ' ! ' &# / -

3' # (# # ! ' Q *<:* 3 +* ; 2/0 80 ' 2B ; 2 42 ; 242. 52' 5 + ; ; 3 :5 42 + ' < B3 2 44B 29B2 42 :2 +0 9*4288:98 42 + ' < 9< B2 5 4B 29B20 :9 ! 25' 5 + ; ; 3 :5 42 + ' < 9< B2 5 B 29B2 2++2* ; ; 2

' ' K ! ' 23 _<WS< :^0 .2 +

3' # (# (' Q *<:* *+./' @ ' ? "; ' 2B ; 2 42 G:3 5 ?92' $9' 283 8 39'" :9' 589B2 8:98 + ' 29 ++2' ' (' ' 23 32 J +52 B2<B28253 53 + ' E B 3 G+2 29 ++20 .: ; ; 2 4 58 D 8<2BJ2

' ' K ! 0' 23) SS 0 29 ++2

3' # (# (' T*<:* *+:*\ B*<./0V 4 ' 2B ; 2 42 G:3 5 ?92' :53 +2 B9 3 5 +3 9*4288:98 42 + ' 29 ++2 32++28 8253 +28 :9J B28

-' (! ' K ! ') 9SS:E 29 ++20 23 A <A 30 B9 3

3' # (# (' Q *<:* *M./0 6 ' ' 2B ; 2 4. 5 3:* ; 2' : ;'4:55 ' ?92+?92 : 8 ' + ' J+ 542 < 39 3 B2

' ' K ! ' 23 <B:49.3 :5 58' 4 32 _' . 982 42 8:5 8 J2 ' + ' .2 5 2B 29B2 49 .2B* E2 9

3# ((' Q *< *< *@./0 ' ' 2B ; 2 4.253:K ; :+:J 2' 2B5 2B 82J ; 253 E253B + 42 . G4: ; 25 428 582.328' 0

' ' K ! ' 23 A9B 0 42BB 2B2

3' # ((' Q *<:*< *:5/0 ' ' , # ' 42 .= K B9BJ 2' < 5.=2 ; 253 42 <98 49 42 ; 3 B2 <9B * :B ; 2 4 58 + ' .= ; GB2 532B 29B2 42 . :2 +0 23 B4* ?92 ; ; 253 988' 4 58 + ' <:83 B 29B2

-' (! ' D (A <9:E 42 A"0 8:980 23A :E0<9 0

@ # (# (# ! ' Q *<:*BB *3 ; ./0 ' ' 2B ; K 4. 5. 2552 ; 3B ?92' 2B8 =2A ; 3B2 8 58 .489B20 :9 4:53 3:98 +28 < 248 3: ; G253 95' ' 950 .: ; ; 2 .M E2B8 4. 55 98'@ # '& '&-/ '(7' -)' " ' '&!##

-' (! ' K ! ' 23 R7Q " 0 B=R3= ; 8' B=R3= ; 2 4 ; 59 0 589 +8 53

3' # (($ ' Q *<:*B *\3 *\./0 ";' 2B ; 2 4 4 .3 ?92' $9' 82 3 9 ; :R25 428 ; 5280 :9 42 + ' J92BB2 8:932BB 52' B E 9A =R<:BR.3 ?928

-' (! ' K ' 23 <99283E .B2982B

3' # (!' Q *<:*882*5 *: ; ./0 ' ' 2B ; 2

4. 53 ?9 32' 2 4288:98 42+ ' 8. 52' L 2 ; 9B '= 33* 329B 4. <<9' ?9' 89<<:B3 3 +2' <+ 5.=2B 49 3= 3B2 :9 +2 <B:8. 5 9 ; ' L '<+ .2 8 39 2 9 < 24 42 .2 ; 9B : ' :5 <+ . 3 +28 ; 98 . 258

' ; Q 1 '

j' # (' Q *<:*8< *4./0 ";' ' 2B ; 2 42 ; 42. 52' $9' 283 2.3 ' 4.=R<:8< 4 8

3' # (' Q *<:*8< *4 * 8./0 ^' ' 2B ; 2 42 ; 42. 52' .2 42 .:5 :B ; 3 :5 428 < B3 28 J * 5 3 +28 49 82A2 ; 8.9+ 50 .:58 83 53 25 A ;' ?92 .9* B23B2 8. 9EB2 9*4288:98 42 + ' E2BJ20 25 95 <: 53 ?92+. :5?92

' # $ ' $ #1,,# $. ' #!#). 1 ' ' 2 ' .$J 2 J# ? $ $< $,$ ' J 1 I ' ? $ I$ ' . ' &#.># . JE$ ' Y ? $ ' ' 1 I ' '2 ', J ' $, $ -. ' 2 ' I <

'# (# ! 'Q *<:*8< *3 *8 ; ./08 ' 2B ; 2 4. 5. 2552 .= B9BJ 2' <2B 3 :5 <B 3 ?9 2 4 58 .2BK 3 58 . 8 4.:<=3= + ; 2 .=B:5 ?920 23 .:58 83 53 ' B8 3B: 8 5. 8 :58 89B +2 B:53 @98?9. 9 < B .B 520 23 ' < 882B 2589 32 952 8< 39+2 253B2 +28 .= B8 23 +2 < B .B 520 5' 42 ; 233B2 .2+9 * . ' ' 59' 4 58 952 .2B3 52 325492

' ' A:2A 32< .0 42 NA"0 4288:980 23 V ; 47508< 39+2

' ; ' C C ; N ' 0$) 1) , <E)M:7 ' M2 M ' . ' JE$ <$ JE M ' . ' < 1 '2 'J1 1 J $I ' ' JJEQM1 ' . ' :1 $2

'# $ ' 8 # J(Q < EJE . ' #! 75'I '2 ' <

'# (! 0 'Q *<:*83 * ; *5 0 5 2/0 ";' 2B ; 2 42 G:3 5 ?92' :53 +28 3 ; 528 8. 582B253 8:98 .:E B2

-' # ' K ! ' -

j' # (! ' Q *<:*83 * ; @*5 2/0 ' ' 2B ; 2 426G:3 5 ?92' 3 ' 4.952 <+ 5324' 3 ; 528 =R<:JR* 528' L + 882 42 <+ 5328 .: ; <B25 53 +28 4 2:3R+24:3* 528 ; :5:< 3 +28 ' 3 ; 528 =R<: JR5280 4. <B 8 + ' 32B ; 5:+:J 2 42 ' 42 54:+2

! ' ; A ' 0$) 1))[:7 ' ' M' E 121<$ ' . 1 ' Q ' $ ' 1$'EQ 1 ' ' ' 2 '

' ; D ' c . ' : 1 ' 1MM ' B ' _E $ '$M < ' I$I ' . ' :EQ 1 ' . ' 1 ' $2) $4 ' ' JE J ' ? 2? 'EQ 1 ' 2 ? 2 '$7 .$,, ' : E .: I J : ' 1 ' J ' M1 ' M 1 ' 4($ $ J ? $ $. ' ' 2 $. E 58Q3 C

' ' T(A: BW2 W 42 NA"0 8:980 23 " ' .K 3 :5 42 82325 B

/ ' ; C '0$)$ 1))[:7 ' M ' . 'M) . $ ' $M ' . ' 2 ' $$$

-'# 'AE s8 ' 5' .: ; ; 25.2 ; 253 4 83 ++2B ' 952 2 9 + B2 22329820 ' + ?92++2 :B4 5 B2 ; 253 82 .:5.B23 952 =R<:83 820 ' + ' %%

' - #11, 1 . . ' !$ 1 ' J .) I $ ' $

"'# (+$ Q *<:*83 * *\./0 :Q'D # 2B ; 2 42 3= :+:J 2' $9' 'B <<9B3 ' .=R<:83 820 L 5 :5 =R<:83 3@?92" .2+2 428 5 39B28 4 E 52 23 =9 < 52 4 58 + ' <2B8:552 42 > 898* =B 83' 28 8 538 B28 :53 4 .+ B ' 283:B 8 = B23 ?920 < B.2 ?9.3 =9 ; 53 ' .95 :5 =R<:83 3 ?92 49 2BG2 2.' =9 ; 53 ' 8 532 23 ?9. + ; 233 3 429A <2B8:5528 25 > 898* =B 830 0 2330 " ' K (!A' 7'0 ' ? - - ' : ; ; 2 +2 2BG2 4 E 5 283 = : ; ; 2 < B 2 J25B2 4.95 25 ? @2 +28 3=2:+:J 258 <<2+253 <2B8:552+2 9 =R<:83 3K ?920 ' R #' 0 F'L]' 2B ; 2 4. +.G ; 2' 2 <B 5. <2 =R<:83 3 ?920 + B23+5 :5 428 3B: 8 + ; 2 38 ?92 +28 +.= ; 8328 4 ; 233 253

' S 6 8' 28 5. 258 :53 5: ; ; 2 .2.' 95 :5 =R<:83 3 ?920 253254 58 < B .2 ; :3 ?92 +28 429A5 39B28 :53 283 '.:5@: 5:32825 952 <2B8:5 2 0 E' $ ' FS ' 2332 :B ; 2 42 < B+2B 93 3B:9E 2 23 ; 82 25 98 J2 <:9B G: B + ' B28E2B 2 42 283:* B 980 ' 1

-' (! ' D A ZC M".0 42 NA:VB3 23.0 =R<:* 3 + '

3' ' 6 < ' Q *<:*83 63 *\./0 W"@0 2B ; 2 42 ; 42. 52' $9' 'B <<:B3 ' .=R<:83 82' L :5J28K 3 :5 =R<:83 3 ?920 .2+2 ?9' 82 <B:49 3 < B . . 9 ; 9K + 3 :5 49 8 5J 4 58+28 . <Z++ B280 :B8 ?920 .288 53 4.23B2 89+ 8 ; ; 253 8:9 ; 8 ' . .3 :5 49 . .29B 2342' + ' .:53B .3 :5 428 E 882 9A0 + . 42 5A + : 8 42 + ' <28 5329B' T

' ' 6 A Q 3 36:P0 42 N 31D QQ%0 =R<:83 82

($! 'Q *<:*83 *3 *\2* ; 5/0 "! 2B ; 2 42 3= :+:J 2' .952 ; 5 B2 =R<:83 3 ?92' ' 5.R 25' ' 9.952 H ; 2I 4.2A 83 532 :9 42 <:88 G+2 ?9' 5.2 3 3' 9 ; ; 2 3 3 42 <2B :V%3 :5 : + 283 .2+2 42 >2898* =B 83 8' 2+2 E 3 3 '95 2 =R<:83 3* ?92 ; 253 9 2BG2 4 58 .583 53 42 8 ' .B 3 :50 ' 3' ; 0 < ' F

' # $ ' K ! =7 ' ! '2 ' ,G#

3' # (6 Q *<:*83 B*5 +/0 6 ' ; ' 2B ; ' 4. 5 3: ; 2' 22 49 832B59 ; ' 428 3:B3928

' ' # R< : 0 ' #-

3' # (3# ' Q *<:*83 *5 2/0 ' ' 2B ; 2 42 ; 242. 52' ; 593 :5 428 :B.28

-' (! ' K ! ' 23 9 + E:.0 :B.2

3' ?U. - "? ! < ' Q *<:*83 *5 *\+0 :4@' 2B ; 8 42 ; 42. 52 ; ' 283 B2+ 3 ' ' B=R<:83= 5 20 ' 9G83 5.28 =R<:83= 5 ?52801 89G83 5.28 9A?92+* +28 +28 B 8:B 328 89<<:8253 + ' <B:<B 3 ' 42 B G 8* 82B .252BJ 2 428 :B.28 E +28

3' # (# 0 ' *<:*83 *5 *M 50 M 5*3./0 ";' $9' =R<:83= = 82' L (' ' 28 =R<:* 83=25 8 538' . ; 3 ?92 2 3 9 ' =R<:83= 5 8 53

3' # (# ' Q *<:*83 *5 BM /0W' ' 2B ; 2 42 ; 242. 52' B:.9B2B .=R<:83= 5+20

3' # (! ' Q *<:*8+ * ; ./0 ' ' 2 3+@ 4.25* 3: ; :+:J 2' B3 2 42 + ' 3 32 428 582.3280 ' b -' (! ' # R< : 0 23 : :< 0 G:9.=2

j' # (! ' Q *<:*83B:* ; ./0 ' ' :552 42 G:3 5 ?92' 82 89B + ?92++2 B2<:8253 +28 < 4:5.9* 28 89<<:B3 53 +28 .:B<98.9+28 B2<B:49.329B8 4 58 .2B3 28 <+ 5328 .BR<3:J ; 28

' ' K ! ' 23 : < < 0 + 30 G:9.=2

j' # ((' Q *<:*83 * 6/0 ";' 2B ; 2 4. B2G* 32.39B2' 2 4 3 4.95 << B32 ; 253 4:53 +2 <+ :54 283 8:93259 < B0 428 .:+:5528' ' 8 ++2 =R<:83R+2 42 B 8R ; 54+ 9 ; ' E 3 ' < 248 ' .=2?92 .43 0 !' # 0 C!-7 -'"> -" ')'5

' ' K ! ' 23 NS h0 .:+:552'

(' Q *<:*89+* 3* /0 ' ' 2B ; 2 42 .= ; 2' 2 <B:49 3 < B + ' .: ; G 5 8:5 42 . . 42 =R<:89+ 9B ?92 E2.'952 G 82' b

,' # (' Q *<:*833+* * /0 f' ; ' 2B ; 2 42 .= ; 2' 2 <B:49 3 < B + ' .: ; G 5 8:5 42 . . 42 =R<:89+ 9B29A E2.'952 G 82

3# (S Q *<:*89+* 9*B25A/0 ";' ' 2B ; 2 42 .= ; 2' 2 4 3 49 <B2 ; 2B 428 :A . 428 49 8:9 =2

.' ' ' K ! ' 7 7# 7B

3' # ($ 'Q *<:B89+* 9*B *\./0 ";' ' 2B ; 2 42 .G ; 2' 2 4 3 49 3B: 8 2 ; 2 428 :A . 428 49 8:9 B20 :2+9 ' ?9' 283 ; : 58 :ARJ25 ' ?92 . 42 89+ 9B ?92

' ' K ! ' ' 7 7# =7 '

6 ' Q *<:*32*59*M./0 ' ' 2B ; 2 4: J : ; 3B 2' 2 .43 '?9' 283 :<<:8 ' ' . 5J+2 4B: 3 4 58 95 3B 5J+2 B2.3 5J+2 R3= J:B2 ' 42 ; :53B ' ?9.25 3:93 3B 5J+2 B2.3 5J+2 +2 . BB ' 42 .=R<:3 * 5982 283 2J / 9 . BB2 428 429A 93B28 . 3 80 6' 0 & / ' R3= J:B2 ; ; :+ ' .253 G:29 5 <:9B E: B 42. :9E2B3 a <B:<B 3 ' 49 . BB ' 42 .=R<:3259820

' -'" ' -(' & 'IK/ -9

-' (! ' D A: 2 E:99 0 <B:<B2 ; 253 + J52 8:98* 3254 5320 42 NA"0 8:980 23 E23E2 E 3254B2 QE:R' : 0 ' /

3' # (# $ ' Q *<:*'3 *+ *88 *\./0 ";' $9' 82 3 8:98 .2 9 42 + ' ; 2B' E J 3 :5 =R<:* 3= + 88 ?92

-' (! ' # R< : 0 0 23 4S :*B 0 ; 2B'

L# (3 'Q *<:*3 * ./0 ' ; ' 2B ; 2 42 G:K 3 5 ?92' :92=2 532B52 :9 5 2B 29B2 428 + .=258

' ' K ! ' 23 &

3' ?U. - "? # @ ' Q *<:*3 *\ *G /0 :4@' $9' <293 3B2 =R<:3= ?9 ' 25 GR<:3=2. G+2

(# ' Q *<:*3 *\ *B./0 ";' 2B ; ' 42 @9B 8<B9425.2 $9' '4B: 3 4.=R<:3= ?92' B2 5. 2B =R<:3G . B2'QL 2332 =R<:3= . B20 42332 ?9'4:552 =R<:3==?92' L 58.B <3 :5 =R<:3= . B20 58.B <3 :5 4.=R<:3=2?92' L 882 =R<:3= . B20 . 882 :54 2 <:9B E25 B 5' 82::9B8 42 + ' <B:<B 3 ' :5: B20 ; R255 53 =R<2B3= ?920 23 8 :9B .9B2B 58' 9A . * < 3 + 8328 ;' <+ .2 ; 253 8 B

-' # 0 SE 6 8' .2 23 42 .:G+ J 3 :5 <2B8:5* 52+2 283 ?52 +2 42325329B 25 <293 283B2 2A2.93 '25 3:98 828 G 258 23 42 .=R<:3=2. B20 ?92 .=2B 3 J2 :=+ J '<293 283B2 8 8'23 4@9J 0 8 58 ?9. + 8: 3 =2* 8: 5 42 4 8.932B .29A 49 <B 5. < + :G+ J 0 $ M6) ' 9B +28 ; ; 29G+280 +28 <B2 ; 2B8 H.B 5.+2B8 =R<:3=2: B28 8253 42E 530 5' NFN

-' (!0 3'& ! & (# 7 '42 & ! & (' =R<:* 3=2?92

(# 'Q *<:*3 *\ *B2* 5 5/0 "5' 2B ; 2 42@9B 8<B9425V%2 E2:5R<:3= ?920:9 < BB <K <:B3 ' .=R<:3=2?92' + 283 :=+ J ' GR<:3= . B2 ; 253 -' # ' S 6 R ' 28 =2B 3+2B8 8:53 32598 428 + 3' 23 :G+ J 3 :58 49 42 9530 <2B8 552+2 ; 253 .= .95 <:9B 8 '< B30 23 =R<:3=22 B2 ; 253 <:9B +2 3:930 :R* 0 C

' ' K = & (# '23 +2 89 +A2 -

3' ?U. - "? 'Q *<:*3 8 *:5/0 ' 'D 2B ; 2 42 G:3 5 ?92' 82 49 3= + ; 2 428 + .=258

' ' K ! ' 23 'A 0 +:J20

HYPOTHÉNAR (i-po-té-nar), *s. m.* Terme d'anatomie. Saillie musculaire à la paume de la main et dans la direction du petit doigt.

— HIST. XVIe s. Le second muscle interne de la main est appelé hypotenar, à cause de sa situation, PARÉ, IV, 29.

— ÉTYM. *Hypo....*, et *thénar*.

1. **HYPOTHÈQUE** (i-po-tè-k'), *s. f.* || 1° Terme de jurisprudence. Droit réel qui grève les immeubles affectés à la sûreté, à l'acquittement d'une obligation, d'une dette et qui les suit en quelque main qu'ils passent. Consentir une hypothèque. Hypothèque privilégiée. Sur quelle vigne à Reims nous avons hypothèque, [illegible] *Lutr.* IV. L'hypothèque est un droit réel sur les immeubles affectés à l'acquittement d'une obligation, *Cod. Nap.* art 2114. L'hypothèque légale est celle qui résulte (directement et immédiatement de la loi) : l'hypothèque judiciaire est celle qui résulte des jugements ou actes judiciaires; l'hypothèque conventionnelle est celle qui dépend des conventions, et de la forme extérieure des actes et des contrats, *ib.* art. 2117. || Première hypothèque, celle qui prime les autres. || Hypothèque générale, hypothèque qui frappe tous les biens présents du débiteur, ainsi que ses biens à venir. || 2° Populairement. Se dit de quelque maladie chronique. Mauvaise hypothèque.

— HIST. XVIe s. Les mineurs et les femmes ont hypotheque taisible et privilegiée sur les biens de leurs tuteurs et maris, du jour de la tutele et du contrat de mariage, LOYSEL, 497. Adjudication par decret, faite pour nettoyer les hypotheques, ID. 539.

— ÉTYM. Provenç. *hypoteca, ypotheca;* espagn. *hipoteca;* ital. *ipoteca;* du lat. *hypotheca*, qui est le grec ὑποθήκη, de ὑποτίθεσθαι, mettre en gage, de ὑπὸ, sous, et τίθεσθαι, mettre.

2. **HYPOTHÈQUE** (i-po-tè-k'), *s. f.* Terme vieilli. Composition faite avec de l'eau-de-vie, du sucre et des fruits, qu'on buvait après le repas.

— ÉTYM. Ménage dit : « On appelle ainsi à Paris, depuis peu d'années, une eau-de-vie assaisonnée avec des cerises, des framboises, du clou de girofle, de la cannelle et du sucre, je n'en sais pas la raison. »

HYPOTHÉQUÉ, ÉE (i-po-té-ké, kée), *part. passé* d'hypothéquer. || 1° Soumis à une hypothèque. Biens hypothéqués. || Fig. Il est hypothéqué à mes consultations; et un malade ne se moquera pas d'un médecin, MOL. *Pourc.* II, 2. || 2° Fig. et familièrement. Être hypothéqué, être mal hypothéqué, et, ironiquement, être bien hypothéqué, avoir une santé délabrée, des infirmités; et aussi être dans l'embarras.

HYPOTHÉQUER (i-po-té-ké). La syllabe *thé* prend l'accent grave, quand la syllabe qui suit est muette: j'hypothèque; excepté au futur et au conditionnel : j'hypothéquerai, j'hypothéquerais), *v. a.* Terme de jurisprudence. Soumettre à l'hypothèque, donner pour hypothèque. Hypothéquer une terre, une maison. Je viens de faire bâtir dans le faubourg une grande maison qui me revient à plus de quarante-cinq mille francs; vous n'avez qu'à l'hypothéquer, je vous la prête, DANCOURT, *Agiot.* III, 9. Il n'est pas inouï de voir des États hypothéquer leurs fonds pendant la paix même, MONTESQ. *Esp.* XIII, 17. || Fig. Mais, ajoute-t-il pour justifier le P. Bauny, vous qui reprenez cela, attendez, quand un pénitent sera à vos pieds, que son ange gardien hypothèque tous les droits qu'il a au ciel pour être sa caution, PASC. *Prov.* 15. || S'hypothéquer, *v. réfl.* Être hypothéqué. Ces biens ne peuvent s'hypothéquer.

— HIST. XVIe Opinion, secte, à laquelle ils se trouvent hypothequez, asservis et collez, MONT. II, 232. Celuy qui a hypothequé au monde son livre, je treuve apparence qu'il n'y aye plus de droict, ID. IV, 90. Je n'aime pas que ma volonté demeure hypothequée par tiltre de gratitude, ID. *ib.* 94.

— ÉTYM. *Hypothèque* 1; provenç. et espagn. *hipotecar*; ital. *ipotecare*.

HYPOTHÈSE (i-po-tè-z'), *s. f.* || 1° Terme de philosophie. Supposition d'une chose possible ou non de laquelle on tire une conséquence. Aristote, aussi grand philosophe que Platon et bien meilleur physicien, au lieu de se perdre comme lui dans la région des hypothèses, BUFF. *Hist. anim.* ch. V, *Œuv.* t. III, p. 117. Pour ébranler une hypothèse, il ne faut quelquefois que la pousser aussi loin qu'elle peut aller, DIDER. *Interprét. de la nat.* n° 50. || Hypothèses vérifiables, celles que l'on prend dans un domaine où l'expérience, l'observation, l'induction peuvent pénétrer, s'assurant de la sorte si l'hypothèse proposée est réelle ou fausse. || Hypothèses invérifiables, celles qui appartiennent à un domaine où ne peuvent pénétrer ni l'expérience ni l'observation. || Par extension, dans le langage général. Je fais mes préparatifs dans l'hypothèse que vous viendrez. || 2° L'assemblage de plusieurs choses imaginées pour parvenir à l'explication de certains phénomènes. L'hypothèse de Ptolémée. L'hypothèse des tourbillons. || 3° Proposition particulière comprise sous la thèse générale. Réduire la thèse à l'hypothèse.

— ÉTYM. Ὑπόθεσις, de ὑπὸ, sous, et θέσις, thèse.

HYPOTHÉTIQUE (i-po-té-ti-k'), *adj.* Qui est fondé sur une hypothèse. Un raisonnement hypothétique. Nous autres, juges.... qu'avons-nous affaire de tous ces volumes de lois? presque tous les cas sont hypothétiques et sortent de la règle générale, MONTESQ. *Lett. pers.* 68. Dans une matière aussi ténébreuse que l'est la mécanique des idées, on est souvent forcé de se contenter de ce qui n'est qu'hypothétique, BONNET, *Ess. psychol. Introd.* || Substantivement. Il entre de l'hypothétique dans cette supposition sur laquelle j'ai néanmoins fondé la seconde base de mes calculs, BUFF. *Théor. terr. part. hyp. Œuv.* t. IX, p. 344. || Dans le système de Kant. Forme hypothétique, la forme d'un raisonnement dans lequel l'attribut n'est réuni au sujet que par une supposition. Jugement hypothétique, réunion de deux propositions, l'une exprimant une condition antécédente, l'autre une conséquence soumise à cette condition.

— ÉTYM. Ὑποθετικός, de ὑπόθεσις, hypothèse.

HYPOTHÉTIQUEMENT (i-po-té-ti-ke-man), *adv.* Par hypothèse, par supposition.

— ÉTYM. *Hypothétique*, et le suffixe *ment*.

† **HYPOTHIONIQUE** (i-po-ti-o-ni-k'), *adj.* Synonyme d'hyposulfurique.

— ÉTYM. *Hypo....*, et θεῖον, soufre.

† **HYPOTRACHÉLION** (i-po-tra-ké-li-on), *s. m.* Ancien terme d'architecture. Le col d'une colonne, c'est-à-dire l'endroit le plus menu qui touche au chapiteau.

— ÉTYM. Ὑποτραχήλιον, de ὑπὸ, sous, et τράχηλος, cou.

† **HYPOTROPHIE** (i-po-tro-fie), *s. f.* Terme de pathologie. Nutrition insuffisante. L'hypotrophie d'un muscle.

— ÉTYM. *Hypo....*, et τροφή, nourriture.

HYPOTYPOSE (i-po-ti-pô-z'), *s. f.* Terme de rhétorique. Description animée, vive et frappante, qui met, pour ainsi dire, la chose sous les yeux. L'hypotypose est un mot grec qui signifie *image, tableau;* c'est lorsque, dans les descriptions, on peint les faits dont on parle comme si ce qu'on dit était actuellement devant les yeux, DUMARSAIS, *Tropes*, II, 9. Poussez à Marcassus, poussez à Marcellus [députés attachés au parti royaliste sous la Restaution] la métaphore, l'antithèse, l'hypotypose, P. L. COUR. *Lett.* X. || Les *Hypotyposes*, titre d'un livre de Sextus Empiricus. Tout ce que Sextus Empiricus et Huet disent contre la raison, l'un dans ses Hypotyposes, l'autre dans son traité de la faiblesse de l'esprit humain, ne vaut pas un article choisi du dictionnaire de Bayle, DIDER. *Opin. des anc. philos.* (*phil. pyrrhonienne*).

— ÉTYM. Ὑποτύπωσις, de ὑπὸ, sous, et τύπος, type.

† **HYPOXANTHINE** (i-po-ksan-ti-n'), *s. f.* Terme de chimie. Substance extraite de la rate.

— ÉTYM. *Hypo...*, et ξανθός, jaune : un peu jaune.

† **HYPOXYDE** (i-po-ksi-d'), *s. m.* Terme de chimie. Oxyde au plus bas degré, sous-oxyde.

— ÉTYM. *Hyp....*, et *oxyde*.

† **HYPOXYDÉES** (i-po-ksi-dée), *s. f. pl.* Terme de botanique. Famille de plantes herbacées, voisine des amaryllidées.

† **HYPOXYLÉS** (i-po-ksi-lé), *s. m. pl.* Terme de botanique. Nom d'un groupe de champignons se développant spécialement sous l'écorce du bois mort.

— ÉTYM. *Hypo....*, et ξύλον, bois.

† **HYPOZOÏQUE** (i-po-zo-i-k'), *adj.* Terme de géologie. Terrains hypozoïques, terrains inférieurs à ceux où l'on trouve des débris de corps organisés.

— ÉTYM. *Hypo....*, et ζῶον, animal.

† **HYPSOGRAPHIE** (i-pso-gra-fie), *s. f.* Terme technique. Description des lieux élevés.

— ÉTYM. Ὕψος, hauteur, et γράφειν, décrire.

† **HYPSOMÈTRE** (i-pso-mè-tr'), *s. m.* Instrument de physique qui fait connaître la hauteur d'un lieu d'après la température à laquelle l'eau y entre en ébullition.

— ÉTYM. Ὕψος, hauteur, et μέτρον, mesure. Dans ὕψος est le radical υπ, de ὑπὲρ, sur.

† **HYPSOMÉTRIE** (i-pso-mé-trie), *s. f.* Art de mesurer la hauteur d'un lieu quelconque par des nivellements ou des observations barométriques, ou des opérations géodésiques.

— ÉTYM. Voy. HYPSOMÈTRE.

† **HYPSOMÉTRIQUE** (i-pso-mé-tri-k'), *adj.* Qui a rapport à l'hypsométrie.

† **HYPSOPTÈNES** (i-pso-ptè-n'), *s. m. pl.* Nom d'un ordre en ornithologie.

— ÉTYM. Ὕψος, hauteur, et πτηνός, qui vole.

† **HYRAX** (i-raks'), *s. m.* Terme de zoologie. Nom moderne du genre daman (pachydermes), dans lequel on distingue l'hyrax du Cap, dit vulgairement daman, dont la taille approche de celle du lapin.

— ÉTYM. Ὕραξ, souris.

HYSOPE (i-zo-p') ou **HYSSOPE** (i-so-p'), *s. f.* Terme de botanique. Plante aromatique, *hyssopus officinalis, L.* labiées. Et traita aussi de tous les arbres, depuis le cèdre qui est sur le Liban, jusqu'à l'hyssope qui sort de la muraille, SACI, *Bible, Rois*, III, IV, 33. || Fig. Mes petites affaires me paraissent de l'hysope en comparaison de vos grands cèdres, SÉV. 597. || Fig. Depuis le cèdre jusqu'à l'hysope, ou depuis l'hysope jusqu'au cèdre, depuis ce qu'il y a de plus grand jusqu'à ce qu'il y a de plus petit. Les comédiens et les auteurs, depuis le cèdre jusqu'à l'hysope, sont diablement animés contre lui, MOL. *Impr.* 3. Depuis l'hysope jusqu'au cèdre et depuis la terre jusqu'au ciel, est-il rien de si secret, soit dans l'art, soit dans la nature, où l'on n'ait pénétré? BOURDAL. *Pensées*, t. II, p. 215. || Fig. Il sait tout depuis le cèdre jusqu'à l'hysope, c'est un homme fort instruit dans les sciences naturelles, connaissant les plus petites choses comme les plus grandes.

— HIST. XIIIe s. Et aumaires [armoires] de sapience, Et ysopes d'umilitei, RUTEB. II, 15.

— ÉTYM. Wallon, *izibe, lizibe, lizipe ;* provenç. *isop, ysop;* espagn. *hisopo* ; ital. *isopo* ; du lat. *hyssopus*, qui est le grec ὕσσωπος, de l'hébreu *ezob*, qui signifie plutôt origan.

† **HYSOPINE** (i-zo-pi-n'), *s. f.* Terme de chimie. Substance extraite de l'hysope.

† **HYSSON** (hi-son), *s. m.* Voy. THÉ. || Peau d'hysson, les feuilles de rebut du thé hysson.

† **HYSTASPIDE** (i-sta-spi-d'), *s. m.* Les Hystaspides, les descendants d'Hystaspe, qui ont été rois de Perse depuis Darius Ier jusqu'au Darius détrôné par Alexandre, et qui ont régné de 521 à 331.

— ÉTYM. Inscription cunéiforme de Behistoun, *Vistâspa*, Hystaspe, où il y a probablement *açpa*, cheval; on ignore ce qu'est *vis*.

† **HYSTÉRALGIE** (i-sté-ral-jie), *s. f.* Terme de médecine. Douleur plus ou moins vive, mais non inflammatoire, qui se fait sentir à la matrice.

— ÉTYM. Ὑστέρα, matrice, et ἄλγος, douleur.

† **HYSTÉRANDRIE** (i-sté-ran-drie), *s. f.* Terme de botanique. Classe de plantes qui ont plus de vingt étamines insérées sur un ovaire infère.

† **HYSTÉRANDRIQUE** (is-té-ran-dri-k'), *adj.* Terme de botanique. Qui appartient à l'hystérandrie.

† **HYSTÉRANTHE** (i-sté-ran-t') et **HYSTÉRANTHÉ, ÉE** (i-sté-ran-té, tée), *adj.* Terme de botanique. Dont les fleurs paraissent après les feuilles.

— ÉTYM. Ὕστερον, après, et ἄνθος, fleur.

† **HYSTÉRICISME** (i-sté-ri-si-sm'), *s. m.* Terme de médecine. Grande susceptibilité aux attaques d'hystérie.

— ÉTYM. *Hystérique.*

HYSTÉRIE (i-sté-rie), *s. f.* Terme de médecine. Maladie nerveuse qui se manifeste par accès et qui est caractérisée par des convulsions, la sensation d'une boule qui remonte de la matrice dans la gorge et la suffocation.

— ÉTYM. Ὑστέρα, matrice.

HYSTÉRIQUE (i-sté-ri-k'), *adj.* || 1° Terme d'anatomie. Qui a rapport à la matrice. Les parois hystériques. || 2° Terme de médecine. Qui appartient à l'hystérie. || Clou hystérique, douleur très-vive qui se fait sentir à la tête dans l'hystérie, comme un clou qu'on enfonce. || 3° Qui est attaqué de l'hystérie. Une femme hystérique. || *S. f.* Une hystérique, une femme atteinte d'hystérie.

— ÉTYM. *Hystérie.*

HYSTÉRITE (i-sté-ri-t'), *s. f.* Terme de médecine. Synonyme peu usité de métrite.

— ÉTYM. Ὑστέρα, et la finale médicale *ite* qui indique inflammation, maladie.

† **HYSTÉRO-CATALEPSIE** (i-sté-ro-ka-ta-lè-psie), *s. f.* Terme de médecine. Attaque d'hystérie compliquée de symptômes de catalepsie.

— ÉTYM. Ὑστέρα, matrice, et *catalepsie*.

HYSTÉROCÈLE (i-sté-ro-sè-l'), *s. f.* Terme de chirurgie. Hernie de matrice.

— ÉTYM. Ὑστέρα, matrice, et κήλη, hernie.

† **HYSTÉROCYSTIQUE** (i-sté-ro-si-sti-k'), *adj.* Terme d'anatomie. Qui a rapport à la matrice et à la vessie.

— ÉTYM. Ὑστέρα, matrice, et κύστις, vessie.

† **HYSTÉROCYSTOCÈLE** (i-sté-ro-si-sto-sè-l'), *s. f.* Terme de chirurgie. Hernie dans laquelle se trouvent l'utérus et la vessie urinaire.

— ÉTYM. Ὑστέρα, matrice, κύστις vessie, et et κήλη, hernie.

† **HYSTÉRO-ÉPILEPSIE** (i-sté-ro-é-pi-lè-psie), *s. f.* Terme de médecine. Hystérie compliquée d'accès épileptiformes.

† **HYSTÉROGRAPHIE** (i-sté-ro-gra-fie), *s. f.* Description de la matrice.

— ÉTYM. Ὑστέρα, matrice, et γράφειν, décrire.

HYSTÉROLITHE (i-sté-ro-li-t'), *s. f.* || 1° Terme de minéralogie. Pétrification qui offre une représentation assez exacte des parties de la femme. || 2° Terme de médecine. Concrétion calcaire formée dans les parois de la matrice.

— REM. Presque tous les noms composés de *lithe* sont masculins, comme aérolithe, etc.; pourquoi l'Académie fait-elle une exception pour hystérolithe?

— ÉTYM. Ὑστέρα, matrice, et λίθος, pierre.

† **HYSTÉROLOGIE** (i-sté-ro-lo-jie), *s. f.* Terme de rhétorique. Défaut d'arrangement dans le discours, qui fait placer d'abord la circonstance ou le détail qui devrait être après. Virgile a fait une hystérologie, quand il a dit (*Æn.* II, v. 353) : *Moriamur et in media arma ruamus. Moriamur* devrait être placé après *ruamus*, puisqu'on ne peut pas s'élancer après qu'on est mort.

— ÉTYM. Ὕστερον, en dernier lieu, et λόγος, discours. Cette figure se nomme aussi *hystéro-proton.*

† **HYSTÉROLOXIE** (i-sté-ro-lo-ksie), *s. f.* Terme de médecine. Obliquité de la matrice, déviation a laquelle cet organe est assez sujet pendant la grossesse.

— ÉTYM. Ὑστέρα, matrice, et λοξός, oblique.

† **HYSTÉROMALACIE** (i-sté-ro-ma-la-sie), *s. f.* Terme de médecine. Ramollissement des tissus de la matrice, lequel rend l'organe sujet à se rompre durant l'accouchement.

— ÉTYM. Ὑστέρα, matrice, et μαλακὸς, mou.

† **HYSTÉROMANIE** (i-sté-ro-ma-nie), *s. f.* Terme de médecine. Fureur utérine ou nymphomanie.

— ÉTYM. Ὑστέρα, matrice, et *manie.*

† **HYSTÉROMÈTRE** (i-sté-ro-mè-tr'), *s. m.* Sonde utérine, instrument destiné à sonder l'utérus et à le ramener à sa direction normale, lorsqu'il est dévié.

— ÉTYM. Ὑστέρα, matrice, et *mètre.*

† **HYSTÉROPHYSE** (i-sté-ro-fi-z'), *s. f.* Terme de médecine. Distension de l'utérus par des gaz.

— ÉTYM. Ὑστέρα, matrice, et φῦσα, air, gaz.

† **HYSTÉRO-PROTON** (i-sté-ro-prô-ton) ou **HYSTÉRO-PROTERON** (i-sté-ro-pro-té-ron), *s. m.* Terme de rhétorique. Synonyme d'hystérologie. Il ne fallait pas qu'un cardinal envoyé par le pape pour faire rentrer le duc de Bourgogne dans mes bonnes grâces allât le voir avant que de venir chez moi. — J'avais cru pouvoir suivre l'usteron-proteron des Grecs, FÉNEL. *Dial. des morts, Louis XI et le card. Bessarion.*

— ÉTYM. Ὕστερον, dernier, et πρῶτον ou πρότερον, premier.

† **HYSTÉROPTOSE** (i-sté-ro-ptô-z'), *s. f.* Terme de chirurgie. Chute de la matrice.

— ÉTYM. Ὑστέρα, matrice, et πτῶσις, chute.

† **HYSTÉRORRHÉE** (i-sté-ro-rrée), *s. f.* Terme de médecine. Synonyme inusité de leucorrhée.

— ÉTYM. Ὑστέρα, matrice, et ῥεῖν, couler.

† **HYSTÉROSCOPE** (i-sté-ro-sko-p'), *s. m.* Synonyme inusité de spéculum utérin.

— ÉTYM. Ὑστέρα, matrice, et σκοπεῖν, examiner.

† **HYSTÉROSTOMATOME** (i-sté-ro-sto-ma-to-m'), *s. m.* Terme de chirurgie. Nom de deux instruments pour fendre le col de la matrice, qui ne permet pas à l'accouchement de s'opérer.

— ÉTYM. Ὑστέρα, matrice, στόμα, orifice, et τομή, incision.

† **HYSTÉROTOCOTOMIE** (i-sté-ro-to-ko-to-mie), *s. f.* Terme de chirurgie. Opération césarienne.

— HIST. XVIe s. Traité de l'hystérotokotomie par Rousset en 1581.

— ÉTYM. Ὑστέρα, matrice, τόκος, accouchement et τομή, incision.

HYSTÉROTOME (i-sté-ro-to-m'), *s. m.* Terme de chirurgie. Instrument propre à pratiquer l'hystérotomie.

— ÉTYM. Ὑστέρα, matrice, et τομή, section.

HYSTÉROTOMIE (i-sté-ro-to-mie), *s. f.* || 1° Terme d'anatomie. Dissection de la matrice. || 2° Terme de chirurgie. En général, l'opération césarienne. || Particulièrement. Opération qui consiste à inciser le col de la matrice et même les parois de cet organe, en pénétrant par le vagin.

— ÉTYM. *Hystérotome.*

† **HYSTÉROTOMOTOCIE** (i-sté-ro-to-mo-to-sie), *s. f.* Terme de chirurgie. Accouchement procuré par l'incision de la matrice.

— ÉTYM. Ὑστέρα, matrice, τομή, incision, et τόκος, accouchement.

† **HYSTRICIENS** (i-stri-siin), *s. m. pl.* Terme de zoologie. Famille de mammifères rongeurs, ayant pour type le genre porc-épic.

— ÉTYM. Lat. *hystrix*, porc-épic, du grec ὕστριξ, de ὗς, porc, et θρίξ, τριχὸς, poil : qui a des soies de porc.

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